

## Appendix F: References

### Literature Cited

- Abad, P.; Tares, S.; Brugier, N.; de Guiran, G. 1991. Characterization of the relationships in the pinewood nematode species complex (PWNSC) (*Bursaphelenchus* spp.) using a heterologous unc-22 DNA probe from *Caenorhabditis elegans*. *Parasitology* 102: 303–308.
- Abramovitz, J.N. 1997. Valuing nature's services. In: Brown, L.R.; Abramovitz, J.N.; Bright, C.; Flavin, C.; French, H.F.; Gardner, G.; McGinn, A.P.; Renner, M.; Roodman, D.M.; Starke, L., eds. *State of the world 1997*. London: Earthscan Publications Ltd.: 95–114.
- ACRT, Inc. 1997. Large tree model technical manual. Cuyahoga Falls, OH: ACRT, Inc. 87 p.
- Adler, F.R. 1999. The balance of terror: an alternative mechanism for competitive trade-offs and its implications for invading species. *American Naturalist* 154: 497–509.
- Aguilar, A.M. 1998. Current situation in Chile of insects associated with *Pinus radiata* D. Don: developing a strategy to prevent the introduction of *Sirex noctilio* F. In: Iede, E.T., ed. *Training in the control of Sirex noctilio by the use of natural enemies: proceeding of a Conference; 4–9 November 1996; Columbo, Brazil*. Morgantown, WV: U.S. Department of Agriculture, Forest Service, Forest Health Technology Enterprise Team, FHTET–98–13: 85–88.
- Alban, D.H.; Berry, E.C. 1994. Effects of earthworm invasion on morphology, carbon, and nitrogen of a forest soil. *Applied Soil Ecology* 1: 243–249.
- Alcubilla, M.; Heibl, R.; Rehfuss, K.E.; Evvers, F.H.; Dimitri, L. 1990. Long term effects of fertilizing measures on the chemical composition of Norway spruce bast and wood and their inhibitory effect against *Heterobasidion annosum*. A contribution to red rot research. München: Forstliche Forschungsberichte 102. 168 p. (In German, English summary).
- Alfieri, S.A. Jr.; Langdon, K.R.; Kimbrough, J.W.; El-Gholl, N.E.; Wehlburg, C. 1994. Diseases and disorders of plants in Florida. Gainesville, FL: Florida Department of Agriculture and Consumer Services. 1114 p. (See p. 883.)
- Allen, E.A.; Humble, L.M.; Humphreys, N.; Duncan, R.W.; Bell, J.; Gill, B. (no date). Do imports of granite blocks and wire rope pose a risk to Canada's forests? Victoria, BC: Natural Resources Canada, Canadian Forest Service; and Canadian Food Inspection Service. 4 p.
- Anderson, N.H.; Sedell, J.R. 1979. Detritus processing by macroinvertebrates in stream ecosystems. *Annual Review of Entomology* 24: 351–377.
- Anderson, P.J.; Rankin, W.H. 1914. *Endothia* canker of chestnut. Cornell University Agricultural Experiment Station Bulletin 347: 529–618.
- Andre, J.C.; Bougeault, P.; Mahfouf, J.F.; Mascart, P.; Noilhan, J.; Pinty, J.P. 1989. Impact of forests on mesoscale meteorology. *Philosophical Transactions of the Royal Society of London B* 324: 407–422.
- Anino, E.O. 1990. Effects of canker in *Paraserianthes falcataria* (L.) Forsberg grown as a plantation crop. *Nitrogen Fixing Tree Research Reports* 8: 146.

Anselmi, N.; Invernizzi, C. 1992. Ophiostomatales as sap stain agents in wood of declining forest trees. Petria 2: 119–128.

Bain, J. 1977. *Hylurgus ligniperda* (Fab.). Forest and timber Insects in New Zealand 18. Rotorua: Forest Research Institute, New Zealand Forest Service. 6 p.

Bakke, A.; Austara, O.; Pettersen, H. 1977. Seasonal flight activity and attack pattern of *Ips typographus* in Norway under epidemic conditions. Meddelelser fra Norsk Institutt for Skogforskning 33: 253–268.

Bakshi, B.K. 1971. Indian Polyporaceae. New Delhi: Indian Council Agricultural Research. 246 p.

Baojun, Y.; Qouli, W. 1989. Distribution of the pinewood nematode in China and susceptibility of some Chinese and exotic pines to the nematode. Canadian Journal of Forest Research 19: 1527–1530.

Barak, A.V.; McGrevy, D.; Tokaya, G. (In press). Dispersal and re-capture of marked, overwintering *Tomicus piniperda* (L.) (Coleoptera: Scolytidae) from Scotch pine bolts. Great Lakes Entomologist.

Baranchikov, Y.N. 1989. Ecological basis of the evolution of host relationships in Eurasian gypsy moth populations. In: Wallner, W.E.; McManus, K.A., tech. coords. Lymantriidae: a comparison of features of New and Old World tussock moths: Proceedings of a symposium; 26 June–1 July 1988; New Haven CT. General Technical Report NE-123. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station: 319–338.

Barbosa, P.; Greenblatt, J. 1979. Suitability, digestibility and assimilation of various host plants of the gypsy moth *Lymantria dispar* L. Oecologia 43: 111–119.

Barrett, J.W., ed. 1995. Regional silviculture of the United States, 3rd Edition. New York: John Wiley & Sons, Inc. 643 p.

Baxter, A.P.; Eicker, A. 1995. Preliminary synopsis: recorded taxa of Southern African Ganodermataceae. In: Buchanan, P.K.; Hseu, R.S.; Moncalvo, J.M., eds. Symposium Proceedings: 59A, B; Vancouver. Fifth International Mycological Congress: 3–6.

Baylis, N.T.; DeRonde, C.; James, D.B. 1986. Observations of damage of a secondary nature following a wild fire at the Otterford State Forest. South African Forestry Journal 137: 36–37.

Beckenbach, K.; Smith, M.J.; Webster, J.M. 1992. Taxonomic affinities and intra- and interspecific variation in *Bursaphelenchus* spp. as determined by polymerase chain reaction. Journal of Nematology 24: 140–147.

Bedding, R.A. 1972. Biology of *Deladenus siricidicola* (Neotylenchidae) an entomophagous–mycetophagous nematode parasitic in siricid woodwasps. Nematologica 18: 482–493.

Bedding, R.A.; Akhurst, R.J. 1974. Use of the nematode *Deladenus siricidicola* in the biological control of *Sirex noctilio* in Australia. Journal of the Australian Entomological Society 13: 129–135.

Bedding, R.A.; Akhurst, R.J. 1978. Geographical distribution and host preferences of *Deladenus* species (Nematoda: Neotylenchidae) parasitic in siricid woodwasps and associated hymenopterous parasitoids. Nematologica 24: 286–294.

Bejer, B. 1988. The nun moth in European spruce forests. In: Berryman, A.A, ed. Dynamics of forest insect populations. Patterns, causes, implications. New York: Plenum Press: 211–231.

Bell, J.; Gill, B.D. (no date). A British Columbia nursery growers/CFIA detection survey for *Callidiellum rufipenne*. Vancouver, BC: Canadian Food Inspection Agency. 4 p. (unpublished report).

Bendz-Hellgren, M.; Lillonen, K.; Solheim, H.; Thomsen, I.M. 1998. Chapter 17. The Nordic countries. In: Woodward, S.; Stenlid, J.; Karjalainen, R.; Hüttermann, A., eds. *Heterobasidion annosum*: biology, ecology, impact and control. Oxon: CAB International: 27–33.

Berisford, C.W.; Eager, T.A. 1997. Southern pine susceptibility to the pine shoot beetle, *Tomicus piniperda*. Final report to U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. Athens, GA: Department of Entomology, University of Georgia. 10 p. + 7 figs.

Berti Filho, E. 1983. Insects of the Lepidoptera associated with *Eucalyptus* spp. in Brazil. *Silvicultura* 8: 623–624.

Bess, H.A. 1970. Termites of Hawaii and the oceanic islands. In: Krishna, K.; Weesner, F.M., eds. Biology of termites, Vol II. New York: Academic Press: 449–476.

Bevan, D. 1984. *Orthotomicus erosus* (Wollaston) in Usutu pine plantations, Swaziland. Forest Research Report No. 64. Mbabane, Swaziland: Usutu Pulp Company Limited. 34 p.

Bogdanowicz, S.M.; Mastro, V.C.; Prasher, D.C.; Harrison, R.G. 1997. Microsatellite DNA variation among Asian and North American gypsy moths. *Annals of the Entomological Society of America* 90: 768–775.

Bogdanowicz, S.M.; Wallner, W.E., Bell, J.; O'Dell, T.M.; Harrison, R.G. 1993. Asian gypsy moths (Lepidoptera: Lymantriidae) in North America: evidence from molecular data. *Annals of the Entomological Society of America* 86: 710–715.

Bondartsev, A.S. 1953 (translated 1971). The Polyporaceae of the European USSR and Caucasica. Moscow: Academy of Science USSR, Komarov Botanical Institute. 1106 p.

Bosch, J.M.; Hewlett, J.D. 1982. A review of catchment experiments to determine the effect of vegetation changes and water yield on evapotranspiration. *Journal of Hydrology* 55: 3–23.

Botterweg, P.F. 1982. Dispersal and flight behavior of the spruce bark beetle *Ips typographus* in relation to sex size and fat content. *Zeitschrift für angewandte Entomologie [Journal of Applied Entomology]* 94: 466–489.

Bowden, W.B.; Bormann, F.H. 1986. Transport and loss of nitrous oxide in soil water after forest clear-cutting. *Science* 233: 867–870.

Boyce, J.S. 1961. Forest pathology. New York: McGraw–Hill Book Co. 572 p.

Brasier, C.M. 1978. Mites and reproduction in *Ceratocystis ulmi* and other fungi. *Transactions of the British Mycological Society* 70: 81–89.

Brasier, C.M. 1990. China and the origins of Dutch elm disease: an appraisal. *Plant Pathology* 39: 5–16.

Brasier, C.M. 1991. *Ophiostoma novo-ulmi* sp. nov., causal agent of the current Dutch elm disease. *Advances in Plant Pathology* 6: 207–223.

Brasier, C.M.; Kirk, S.A. 1993. Sibling species within *Ophiostoma piceae*. *Mycological Research* 97: 811–816.

Brasier, C.M.; Mehrotra, M.D. 1995. *Ophiostoma himal-ulmi* sp. nov., and new species of Dutch elm disease fungus

endemic to the Himalayas. *Mycological Research* 98: 576–582.

Bridges, J.R. 1995. Exotic pests: major threats to forest health. In: Eskew, L.G., ed. *Forest health through silviculture: proceedings of the 1995 National Silviculture Workshop; 8–11 May 1995; Mescalero, NM*. General Technical Report RM-GTR-267. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station.

Brooks, D.J. 1993. U.S. forests in a global context. General Technical Report GTR-RM-228. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station.

Brown, L.R. 1995. Nature's limits. In: Brown, L.R.; Abramovitz, J.N.; Bright, C.; Flavin, C.; French, H.F.; Gardner, G.; McGinn, A.P.; Renner, M.; Roodman, D.M.; Starke, L., eds. *State of the world 1997*. London: Earthscan Publications Ltd.: 3-20.

Browne, F.G. 1968. Pests and diseases of forest plantation trees: an annotated list of the principal species occurring in the British Commonwealth. Oxford: Clarendon Press. 1330 p.

Buchanan, P.K.; Wilkie, J.P. 1995. Taxonomy of New Zealand *Ganoderma*—two non-laccate species. In: Buchanan, P.K.; Hseu, R.S.; Moncalvo, J.M., eds. *Symposium Proceedings: 59A, B; 14–21 August 1994; Vancouver; Fifth International Mycological Congress*. Taipei: National Taiwan University: 7–18.

Bush, R.J.; Araman, P.A. 1998. Changes and trends in the pallet industry: recovery and recycling. *Hardwood Market Report* LXXVI (10): 13–15.

Bush, R.J.; Reddy, V.S.; Bumgardner, M.S.; Chamberlain, J.L.; Araman, P.A. 1997. Recycling in the U.S. pallet industry: 1995. (Unpublished report). Blacksburg, VA: Virginia Polytechnic Institute and State University, Center for Forest Products Marketing and Management. 19 p.

Campadelli, G.; Sama, G. 1989. [First report in Italy of a Japanese cerambycid: *Callidiellum rufipenne* Motschulsky]. *Bollettino dell' Istituto di Entomologia "Guido Grandi" dell' Università degli Studi di Bologna* 43: 69–73.

Campbell, F.T.; Schlarbaum, S.E. 1994. *Fading Forests: North American Trees and the Threat of Exotic Pests*. New York: Natural Resources Defense Council. 47 p.

Campbell, R.W.; Hubbard, D.L.; Sloan, R.J. 1975. Location of gypsy moth pupae and subsequent pupal survival in sparse, stable populations. *Environmental Entomology* 4: 597–600.

Campbell, R.W.; Sloan, R.J. 1977. Forest stand responses to defoliation by the gypsy moth. *Forest Science Monograph* 19. Washington, DC: Society of American Foresters. 34 p.

Campbell, R.W.; Valentine, H.T. 1972. Tree condition and mortality following defoliation by the gypsy moth. U.S. Department of Agriculture, Forest Service Research Paper NE-236. 331 p.

Canadian Food Inspection Agency. 1998. Intercepted plant pests 1994–1997. Nepean, ON: Center of Expertise for Plant Quarantine Pests, Canadian Food Inspection Service. 111 p. (unpublished report).

Canadian Food Inspection Agency; Canadian Forest Service. 1998. Forest health alert: Asian long-horned beetle. Ontario, Canada. 4 p.

Capek, M. 1986. The braconids (Hymenoptera: Braconidae) as parasitoids of oak bark-mining and wood-boring

insects—carriers of tracheomycoses. *Biologia (Czechoslovakia)* 41: 535–542.

Capretti, P.; Panconesi, A.; Parrini, C. 1987. Osservazioni sul deperimento del pino d'Aleppo e del pino marittimo in rimboschimento dell'Alta Maremma. [Dieback of Aleppo and maritime pine in plantations in northern Maremma, Italy.] *Monti e Boschi* 38: 42–46.

Carayon, J. 1955. Quelques caractères anatomiques des Hémiptères Aradides. [Some anatomical characteristics of the Aradidae, Hemiptera.] *Revue Francaise d'Entomologie* 22: 169–180, 3 pl.

Cardé, R.C.; Doane, C.C.; Farnum, D.G. 1978. Attractancy to male gypsy moths of (+)-Disparlure synthesized by different procedures. *Environmental Entomology* 7: 815–816.

Carle, P. 1971. Les phénomènes présidant aux successions d'insectes dans le déperissement du pin maritime du Var. [Phenomena determining the succession of insects causing the degeneration of maritime pine in Var.] *Annales de Zoologie, Ecologie Animale* 3: 177–192.

Cavey, J.F. "C. rufipenne—change in action status." Personal e-mail to Daniel Fieselman (8 October 1998).

Cavey, J. F.; Hoebeke, E.R.; Passoa, S.; Lingafelter, S.W. 1998. A new exotic threat to North American hardwood forests: an Asian longhorned beetle, *Anoplophora glabripennis* Motschulsky) Coleoptera: Cerambycidae: I. Larval description and diagnosis. *Proceedings of the Entomological Society of Washington* 100: 373–381.

Cedarholm, C.J.; Salo, E.O. 1979. The effects of landslide siltation on salmon and trout spawning gravels of Steqaulelo Creek and the Clearwater River Basin, Jefferson County, Washington. Final report. Part 111. FRI-UW-795. Seattle, WA: University of Washington, College of Fisheries, Fisheries Research Institute.

Cha, J.Y.; Sung, J.M.; Irigashi, T. 1994. Biological species and morphological characteristics of *Armillaria mellea* complex in Hokkaido: *A. sinapina* and two new species, *A. jezoensis* and *A. singula*. *Mycoscience* 35: 39–47.

Chang, R.J.; Lu, S.S. 1996. Investigation of the occurrence of pine wilt disease and its naturally infected hosts in the Fushan Botanical Garden. *Taiwan Journal of Forest Science* 11: 201–207. [English abstract in Biological Abstracts Online].

Chang, T-T. 1995. Decline of nine tree species associated with brown root rot caused by *Phellinus noxius* in Taiwan. *Plant Disease* 79: 962–965.

Chang, T-T. 1996. Survival of *Phellinus noxius* in soil and in the roots of dead host plants. *Phytopathology* 86: 272–276.

Chapman, T.A. 1870. Observations on the economy of the British species of *Scolytus*. *Entomologist's Monthly Magazine* 6: 126–131.

Chararas, C. 1973. Adaptability of *Orthotomicus erosus* to conifers other than its usual host species. *Comptes Rendus Hebdomadaires des Séances de l'Academie des Sciences, France, D.* 276: 555–558.

Chararas, C.; M'Sadda, K. 1973. Etude de la biologie, du comportement et de l'action des radiations ionisantes cobalt60 chez *Orthotomicus erosus* Woll., Coleoptere Scolytidae parasite spécifique des conifères. [Study of the biology, behavior and the action of cobalt60 ionizing radiations in *Orthotomicus erosus* Woll., (Coleoptera: Scolytidae), a specific pest of conifers.] *Archives de l'Institut Pasteur de Tunis* 50: 243–265.

Chavez, T.S.J., Jr.; Edmonds, R.L.; Driver, C.H. 1980. Young-grown hemlock stand infection by *Heterobasidion*

- annosum* 11 years after precommercial thinning. Canadian Journal of Forest Research 10: 389–394.
- Chen, J.; Gao, Z.; Chen, J.; Zhu, C.; Zhou, D. 1990. The experiment on controlling *Anoplophora glabripennis* by tree borer killing insecticides. Journal of Forestry Research. 3: 95–97.
- Cheng, J.D. 1989. Streamflow changes after clear-cut logging of a pine beetle-infested watershed in southern British Columbia, Canada Water Research 25: 449–456.
- Choi, Y.E.; Choo, H.Y.; Kim, Y.J.; Moon, Y.S.; Baek, H.S. 1992. Nematodes associated with forest trees in Korea IV. Distribution and species of nematodes associated with forest trees. Korean Journal of Applied Entomology 31: 427–451. (English abstract in Biological Abstracts Online).
- Christiansen, E.; Bakke, A. 1988. The spruce bark beetle of Eurasia. In: Berryman, A.A., ed. Dynamics of forest insect populations: patterns, causes, implications. New York: Plenum Press: 479–503.
- Cibrián Tovar, D.; Méndez Montiel, J.T.; Campos Bolaños, R.; Yates, H.O., III; Flores Lara, J. 1995. Insectos forestales de México. [Forest insects of Mexico.] Chapingo, México: Universidad Autónoma, Publication No. 6. 453 p.
- Ciesla, W.M. 1988a. Estado actual y potencial de las infestaciones de la corteza en las plantaciones de pino insigne en Chile. [Present and potential status of bark beetle infestations in plantations of Monterey pine in Chile.] Documento de Trabajo Interno 8. Santiago, Chile: Corporación Nacional Forestal, Organización de Naciones Unidas para la Agricultura y la Alimentación. 27 p. (Unpublished report).
- Ciesla, W.M. 1988b. Pine bark beetles: a new pest management challenge for Chilean forests. Journal of Forestry 86(12): 27–31.
- Ciesla, W.M. 1998. Recent introductions of forest insects worldwide, their effects on forests and related resources, p. 199–208. In: Proceedings: International forest insect workshop, 18–21 August 1997; Pucon, Chile. Santiago, Chile: Corporación Nacional Forestal.
- Cogollor, G. 1991. Estudio de los antecedentes biológicos para el control de *Hylurgus ligniperda* y *Hylastes ater* (Coleoptera: Scolytidae) en plantaciones de *Pinus radiata* D. Don., propiedad de Forestal Cholguan. [Study of the biological attributes for the control of *Hylurgus ligniperda* and *Hylastes ater* (Coleoptera: Scolytidae) in plantations of *Pinus radiata* (D. Don), on lands of Forestal Cholguan.] Chile: Bosque Ingeniería Ltda., informe final. 69 p. (Unpublished report).
- Cole, T.G.; Whitesell, C.D.; Whistler, W.A.; McKay, N.; Ambacher, A.H. 1988. Vegetation survey and forest inventory, American Samoa. Resource Bulletin PSW-25. Berkeley, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Forest and Range Experiment Station. 14 p. + 4 maps.
- Collins, M.S. 1969. Water relations in termites. In: Krishna, K.; Weesner, F.M., eds. Biology of termites, Vol I. New York: Academic Press: 433–458.
- Cooperative Agriculture Pest Survey. 2000a. “Asian cerambycid beetle: *Anoplophora glabripennis*.” <http://ceris.purdue.edu/napis/pests/alb/index.html#regs> (March 2000).
- Cooperative Agriculture Pest Survey. 2000b. “European gypsy moth: *Lymantria dispar*.” <http://www.ceris.purdue.edu/napis/pests/egm/index.html> (10 Apr. 2000).
- Cooperative Agriculture Pest Survey. 2000c. “Pine shoot beetle: *Tomicus piniperda*.”

<http://www.ceris.purdue.edu/napis/pests/psb/index.html> (10 Apr. 2000).

Corbett, E.S. 1987. The gypsy moth—does it affect soil and water resources? In: Fosbroke, S.; Hicks, R.R., eds. Coping with the gypsy moth in the new frontier. Morgantown, WV: West Virginia University Books, Office of Publication: 39–46.

Council of Tree and Landscape Appraisers. 1992. Guide for Plant Appraisal. Savoy, IL: International Society of Arboriculture. 103 p.

Coutts, M.P. 1969a. The mechanism of pathogenicity of *Sirex noctilio* on *Pinus radiata*. I. Effects of the symbiotic fungus *Amylostereum* spp. (Thelophoraceae). Australian Journal of Biological Science 22: 915–924.

Coutts, M.P. 1969b. The mechanism of pathogenicity of *Sirex noctilio* on *Pinus radiata*. II. Effects of *S. noctilio* mucus. Australian Journal of Biological Science 22: 1153–1161.

Coutts, M.P. 1969c. The formation of polyphenols in small blocks of *Pinus radiata* sapwood with and without the fungal symbiont of *Sirex*. Australian Forestry Research 4: 29–34.

Craighead, F.C. 1950. Insect enemies of Eastern Forests. Washington, DC: U.S. Department of Agriculture, Miscellaneous Publication 657. 679 p.

Crane, J.L.; Schoknecht, J.D. 1973. Conidiogenesis in *Ceratocystis ulmi*, *Ceratocystis piceae* and *Graphium penicilliodes*. American Journal of Botany 60: 346–354.

Crowson, R.A. 1962. Observations on Coleoptera in Scottish oak woods. Glasgow Naturalist 18: 177–195.

Cummins, K.W. 1980. The multiple linkages of forests to streams. In: Waring, R.H., ed. Forests: Fresh perspectives from ecosystem analysis. Corvallis, OR: Oregon State University Press: 191–198.

Czokajlo, D.; Wink, R.A.; Warren, J.C.; Teale, S.A. 1997. Growth reduction of Scots pine, *Pinus sylvestris*, caused by the larger pine shoot beetle, *Tomicus piniperda* (Coleoptera, Scolytidae), in New York State. Canadian Journal of Forestry Research 27: 1394–1397.

Dai, L.; Wang, X. 1988. A new subspecies of *Bacillus thuringiensis*. Microbiologica Sinica 28: 301–306.

Dawson, J.L.M.; Bell, J.D.; Allen, E.A.; Humble, L.M. (no date). Exotic insect interceptions from wooden dunnage and packing material. Nepean, ON: Canadian Food Inspection Agency and Canadian Forest Service. 6 p.

de Almeida, L.C.C.; Luz, E.D.M.N. 1986. Ação do vento na disseminação do mal-rosado do cacaueiro. [Action of the wind in the dissemination of pink disease of cacao.] Revista Theobroma 16: 133–140.

de Guiran, G.; Bruguier, N. 1989. Hybridization and phylogeny of the pine wood nematode (*Bursaphelenchus* spp.). Nematologica 35: 321–330.

de Hoog, G.S. 1993. Sporothrix-like anamorphs of *Ophiostoma* species and other fungi. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. *Ceratocystis* and *Ophiostoma*: Taxonomy, Ecology and Pathogenicity. St. Paul, MN: American Phytopathological Society Press: 53–60.

Delatour, C. 1997. Part II. Diseases in the forest: Europe. In: Hansen, E.; Lewis, K.J., eds. Compendium of conifer diseases. St. Paul, MN: American Phytopathological Society: 73–74.

- DeVay, J.E.; Lukezic, F.L.; English, H.; Trujillo, E.E.; Moller, W.J. 1968. *Ceratocystis* canker of deciduous fruit trees. *Phytopathology* 58: 949–954.
- Dimitri, L.; Tomiczek, C. 1998. Chapter 19. Germany and Austria. In: Woodward, S.; Stenlid, J.; Karjalainen, R.; Hüttermann, A., eds. *Heterobasidion annosum*: biology, ecology, impact and control. Oxon: CAB International: 355–368.
- Doganlar, M. 1984. Number of mandibulae in larval galleries filled with powder post, as a tool for determination of the number of larval instars in bark beetle species (Coleoptera: Scolytidae). *Turkiye Bitki Koruma Dergisi* 8: 225–229.
- Doganlar, M.; Schopf, R. 1984. Some biological aspects of the European oak bark beetle, *Scolytus intricatus* (Ratz.) (Coleoptera: Scolytidae) in the northern parts of Germany (BRD). *Journal of Applied Entomology* 97: 153–162.
- Doganlar, M.; Schopf, R.; Bomboesch, S. 1984. The occurrence of potential vectors of oak wilt disease in southern Lower Saxony (central Europe). *Entomologia Generalis* 10: 35–46.
- Domanski, S. 1965. Fungi. Warsaw: Polish Acad. Inst. Bot. 279 p.
- Drooz, A.T. 1985. Insects of eastern forests. Miscellaneous Publication No. 1426. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Dropkin, V.H.; Foudin, A.S. 1979. Report on the occurrence of *Bursaphelenchus lignicolus*-induced pine wilt disease in Missouri. *Plant Disease Reporter* 63: 904–905.
- Duelli, P.; Studer, M.; Naef, W. 1986. The flight of bark beetles outside of forest areas. *Journal of Applied Entomology* 102: 139–148.
- Duffy, E.A.J. 1953a. A monograph of the immature stages of British and imported timber beetles (Cerambycidae). Norwich, United Kingdom: Jarrold & Sons, Ltd. 350 p.
- Duffy, E.A.J. 1953b. Coleoptera (Scolytidae and Platypodidae). Handbook for the identification of British insects 5(15): 1–20.
- Dukes, J.S.; Mooney, H.A. 1999. Does global change increase the success of biological invaders? *Trends in Ecology and Evolution (TREE)* 14: 135–139.
- Duong, N.H.; Hung, L.N.; Dung, P.T.; Duong, N.H.; Hung, L.N.; Dung, P.T. 1998. Pink disease of rubber trees and validamycin A in the control of *Corticium salmonicolor*. In: Symposium on natural rubber (*Hevea brasiliensis*); 14–15 October 1997; Ho Chi Minh City, Vol. 2: 101–114. Brickendonbury, United Kingdom: International Rubber Research and Development Board.
- Duraflora, E.T. 1993. Susceptibilidade de toras de pinheiros tropicais ao ataque da vespa-da-madeira *Sirex noctilio* (Hymenoptera: Siricidae). [Susceptibility of tropical pine logs to attack by the woodwasp, *Sirex noctilio* (Hymenoptera: Siricidae).] In: Conferencia Regional da Vespa da Madeira, *Sirex noctilio*, na America do Sul. Colombo, PR, Brasil: Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA) 97–109.
- Dwinell, L.D. 1993. First report of pinewood nematode (*Bursaphelenchus xylophilus*) in Mexico. *Plant Disease* 77: 846.
- Dwyer, J. F.; Nowak, D. J.; Noble, M. H.; Sisinni, S.M. (In press). Assessing our Nation's urban forests: connecting

people with ecosystems in the 21<sup>st</sup> century. General Technical Report. Washington, DC: U.S. Department of Agriculture, Forest Service.

Edel'man, N.M.; Malyseva, M.S. 1959. The biology of *S. intricatus* in the oak woods of the Savala forest (Voronezh region). Entomologiceskoe Obozrenie 38: 369–381.

Edwards, R.; Mill, A.E. 1986. Termites in buildings. Their biology and control. East Grinstead, United Kingdom: Rentokil Limited. 261 p.

Eidmann, H.H. 1992. Impact of bark beetles on forests and forestry in Sweden. Journal of Applied Entomology 114: 193–200.

Eisenhauer, D.R. 1989. Investigations towards improving the ecological stability of oak stands in the northeastern foothills of the Harz Mountains. Beiträge für die Forstwirtschaft 23: 55–62.

Eldredge, L.G.; Miller, S.E. 1988. Numbers of Hawaiian species: supplement 3, with notes on fossil species. Bishop Museum Occasional Papers No. 55: 3-15. Honolulu, HI: Bishop Museum Press.

Elkinton, J.S.; Hajek, A.E.; Boettner, G.H.; Simons, E.E. 1991. Distribution and apparent spread of *Entomophaga maimaga* (Zygomycetes: Entomophthorales) in gypsy moth (Lepidoptera: Lymantriidae) populations in North America. Environmental Entomology 20: 1601–1605.

Elkinton, J.S.; Liebold, A.M. 1990. Population dynamics of gypsy moth in North America. Annual Review of Entomology 35: 571–596.

Elton, C.S. 1958. The ecology of invasions by animals and plants. London: Methuen and Co., Ltd. 181 p.

Eshleman, K.N.; Morgan, R.P.; Webb, J.R.; Deviney, F.A.; Galloway, J.N. 1998. Temporal patterns of nitrogen leakage from mid-Appalachian forested watersheds: role of insect defoliation. Water Research. 34: 2005–2116.

Evans, D. 1983. Annotated checklist of insects associated with native pines in British Columbia. Environment Canada, Canadian Forest Service, Pacific Forest Research Centre, Information Report BC-X-24. 115 p.

Fabre, J.-P.; Carle, P. 1975. Contribution à l'étude biologique d'*Hylurgus ligniperda* F. (Coleoptera: Scolytidae) dans le sud-est de la France. [Contribution to the biological study of *Hylurgus ligniperda* F. (Coleoptera: Scolytidae) from southeastern France.] Annales des Sciences Forestières 32: 55–71.

Fahey, T.J.; Hughes, J.W. 1992. Fine root dynamics in a northern hardwood forest ecosystem. NH: Hubbard Brook Experimental Forest. Journal of Ecology 82: 533–548.

FAO. 1996. International standards for phytosanitary measures, Publ. No. 2. Import regulations: guidelines for pest risk analysis. Rome, Italy: Secretariat of the International Plant Protection Convention, Food and Agriculture Organization of the United Nations. 21 p. (Available at <http://www.fao.org/ag/agp/agpp/pq/En/Publ/ISPM/ispm2e.pdf>)

FAO. 1999. International standards for phytosanitary measures, ISPM Publ. No. 5. Glossary of phytosanitary terms. Rome, Italy: Secretariat of the International Plant Protection Convention, Food and Agriculture Organization of the United Nations. 21 p. (Available at <http://www.fao.org/ag/agp/agpp/pq/En/Publ/ISPM/ispm5efs.pdf>).

Farrell, R.L.; Duncan, S.M.; Ram, A.P.; Kay, S.J.; Hadar, Y.; Blanchette, R.A.; Harrington, T.C.; McNew, D.; Kreber, B. 1997. Causes of sapstain in New Zealand. Forest Research Institute (New Zealand) Bulletin 1997 (204):

- Ferguson, D.C. 1978. Noctuoidea, Lymantriidae. The moths of America north of Mexico, Fascicle 22.2. Faringdon, UK: E.W. Classey, Ltd. and Wedge Entomology Research Foundation. 110 p., 9 plates.
- Ferreira, M.C.; Ferreira, G.W.S. 1986. Pragas do pinheiro bravo em Portugal—escolitideos. [Pests of bravo pine in Portugal—scolytids.] Boletim Agricola No. 36. 4 p.
- Fielding, N.J.; Evans, H.F. 1996. The pine wood nematode *Bursaphelenchus xylophilus* (Steiner and Buhrer) Nickle (= *B. lignicolus* Mamiya and Kiyohara): an assessment of the current position. Forestry 69: 35–46.
- Fiodorov, N. 1998. Eastern Europe and Baltic countries. In: Woodward, S.; Stenlid, J.; Karjalainen, R.; Hüttermann, A., eds. *Heterobasidion annosum*: biology, ecology, impact and control. Oxon: CAB International: 387–403.
- Floyd, R.; Wylie, R.; Old, K.; Dudzinski, M.; Kile, G. 1998. Pest risk analysis of *Eucalyptus* spp. at risk from incursions of plant pests and pathogens through Australia's northern border. Contracted Report 44, for Australian Quarantine Inspection Service by CSIRO Australia. 73 p.
- Forschler, B.T. 1998. Subterranean termite biology in relation to prevention and removal of structural infestations. NPCA research report on subterranean termites. Dunn Loring, VA: National Pest Control Association: 31–51.
- Forsse, E.; Solbreck, C. 1985. Migration in the bark beetle *Ips typographus* L.: duration, timing and height of flight. Zeitschrift für angewandte Entomologie [Journal of Applied Entomology] 100: 47–57.
- Franco, P.A.; Weaver, P.L.; Eggen-McIntosh, S. 1997. Forest resources of Puerto Rico, 1990. Resource Bulletin SRS-22. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 45 p.
- Franklin, J.F.; Perry, D.A.; Schowalter, T.D.; Harmon, M.E.; McKee, A.; Spies, T.A. 1989. Importance of ecological diversity in maintaining long-term site productivity. In: Perry, D.A.; Meurisse, R.; Thomas, B.; Miller, R.; Boyle, J.; Means, J.; Perry, C.R.; Powers, R.F., eds. Maintaining the long-term productivity of Pacific Northwest forest ecosystems. Portland, OR: Timber Press: 82–97.
- Franz, J.M. 1961. Biological control of pest insects in Europe. Annual Review of Entomology 6: 183–200.
- Froelich, R.C.; Cowling, E.B.; Collicott, L.V.; Dell, T.R. 1977. *Fomes annosus* reduces height and diameter of planted slash pine. Forest Science 23: 299–306.
- Froeschner, R.C. 1988. Family Aradidae. In: Henry, T.J.; Froeschner, R.C., eds. Catalog of the Heteroptera or true bugs of Canada and the continental United States. Leiden: E.J. Brill: 29–46.
- Fu, L.K.; Xin, Y.Q. 2000. Elms of China. In: Dunn, C.P. The Elms: Breeding, conservation, and disease management. Boston, Dordrecht, and London: Kluwer Academic Publishers: 21–44.
- Furniss, M.M.; Solheim, H.; Christiansen, E. 1990. Transmission of blue-stain fungi by *Ips typographus* Coleoptera Scolytidae in Norway spruce. Annals of the Entomological Society of America 83: 712–716.
- Furniss, R.L.; Carolin, V.M. 1977. Western forest insects. Miscellaneous Publication No. 1339. Washington, DC: U.S. Department of Agriculture, Forest Service. 654 p.
- Gao, R.; Zheng, S.K. 1997. Control of three kinds of poplar longicorn using adult feeding habits. Journal of Beijing

Forestry University 20: 43–48.

Gara, R.I., Holsten, E.H.; Burwell, B.B. 1988. A Chilean integrated forest pest management program: A new Peace Corps venture. Report of Peace Corps forestry consultancy. College of Forest Resources, University of Washington, Seattle, WA. 44 p. (Unpublished report).

Garner, K.J.; Slavicek, J.M. 1996. Identification and characterization of a RAPD-PCR marker for distinguishing Asian and North American gypsy moth. Insect Molecular Biology 5: 81-91.

Gay, F.J. 1969. Species introduced by man. In: Krishna, K.; Weesner, F.M., eds. Biology of termites, Vol I. New York: Academic Press: 459–494.

Gibbs, J.N. 1978a. Intercontinental epidemiology of Dutch elm disease. Annual Review of Phytopathology 16: 287–307.

Gibbs, J.N. 1978b. Oak wilt. Arboricultural Journal 3: 351–356.

Gibbs, J.N. 1993. The biology of Ophiostomatoid fungi causing sapstain in trees and freshly cut logs. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. *Ceratocystis* and *Ophiostoma*: taxonomy, ecology and pathogenicity. St. Paul, MN: American Phytopathological Society Press: 153–160.

Gibbs, J.N.; French, D.W. 1980. The transmission of oak wilt. St. Paul, MN: U. S. Department of Agriculture, Forest Service Research Paper NC-185. 17 p.

Gibbs, J.N.; Inman, A. 1991. The pine shoot beetle *Tomicus piniperda* as a vector of blue stain fungi to windblown pine. Forestry 64: 239–249.

Gibbs, J.N.; Wainhouse, D. 1986. Spread of forest pests and pathogens in the northern hemisphere. Forestry 59: 142–153.

Gilbertson, R.L.; Burdsall, H.H, Jr. 1972. *Phellinus torulosus* in North America. Mycologia 64: 1258–1269.

Gine, W.; Chein, M. 1986. In: Forest Diseases and Insect Prevention, First Edition. (From a translation by M. Yang, CPA, USDA, OIG).

Goheen, E.M.; Goheen, D.J. 1989. Losses caused by annosus root disease in Pacific Northwest forests. In: Otrosina, W.J.; Scharpf, R.F., tech. coords. Symposium proceedings: resource management: Annosus root disease (*Heterobasidion annosum*) in western North America. Berkeley, CA: U.S. Department of Agriculture, Forest Service, General Technical Report PSW 116: 66–69.

Góngora-Rodríguez, J.A.; Aburto, M.O.; Lopez, F.M. 1989. Diversos estudios realizados en *Pterophylla beltrani* en el estado de Nuevo León. [Studies conducted on *Pterophylla beltrani* in the State of Nuevo León.] In: IV Simposio nacional sobre parasitología forestal. [Fourth national symposium on forest pests.] Tomo II; 28–30 October 1987; Durango, Dgo. México, D.F.: Instituto Nacional de Investigaciones Forestales y Agropecuarias, Publicación Especial Num. 60: 486–494.

Gottschalk, K.W. 1990. Economic evaluation of gypsy moth damage in the United States of America. In: Proceedings, Division 4, IUFRO (International Union of Forest Research Organizations); Proceedings, 19th World Congress; 5–11 August 1990; Montreal, PQ. Hull, PQ: Canadian IUFRO World Congress Organizing Committee: 235–246. Div. 4.

Greig, B.J.W.; Pratt, J.E. 1976. Some observations on the longevity of *Fomes annosus* in conifer stumps. European Journal of Forest Pathology 6: 250–253.

Grijpma, P.J. 1989. Overview of research on Lymantriids in Eastern and Western Europe. In: Wallner, W.E.; McManus, K.A., tech. coords. Proceedings: Lymantriidae: A comparison of features of New and Old World tussock moths; 26 June–1 July 1988; New Haven CT. General Technical Report NE-123. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station: 21–50.

Grosclaude, C.; Olivier, R.; Romiti, C. 1995. Chancre colore du platane. Comment l'agent responsable peut survivre dans le sol. [Canker stain of London plane. How the causal agent can survive in the soil.] Phytoma No. 479: 41–42.

Guillaumin, J.-J.; Anderson, J.B.; Korhonen, K. 1991. Chapter 2, Life cycle, interfertility, and biological species. In: Shaw, C.G., III; Kile, G.A. Armillaria root disease. Agriculture Handbook 691. Washington, DC: U.S. Department of Agriculture, Forest Service: 10–19.

Guseinov, E.S. 1981. Reasons for the dieback of oak. Lesnoe Khozyaistvo 8: 54–56.

Guseinov, E.S. 1984. Vascular dieback of oak in Azerbaijan. Mikologiya Fitopatologiya 18: 144–149.

Haack, R.A. 1997. Early history and spread of *Tomicus piniperda* in North America. In: Japanese beetle and pine shoot beetle regulatory review: proceedings of a symposium; 24–26 February 1997; Louisville, KY. Riverdale, MD: U.S. Department of Agriculture, Animal and Plant Health Inspection Service: 146–153.

Haack, R.A.; Acciavatti, R.E. 1992. Twolined chestnut borer. Washington, DC: U.S. Department of Agriculture, Forest Service, Insect & Disease Leaflet 168. 12 p.

Haack, R.A.; Cavey, J.F. 1997. Insects intercepted on wood articles at ports-of-entry in the United States: 1985–1996. Newsletter of the Michigan Entomological Society 42 (2–4): 1–6.

Haack, R.A.; Kucera, D. 1993. New introduction—common pine shoot beetle, *Tomicus piniperda* (L.). Radnor, PA: U.S. Department of Agriculture, Forest Service, Northeastern Area, Pest Alert NA-TP-05-93. 2 p.

Haack, R.A.; Law, K.R.; Mastro, V.C.; Ossenbruggen, H.S.; Raimo, B.J. 1997a. New York's battle with the Asian long-horned beetle. Journal of Forestry 95 (12): 11–15.

Haack, R.A.; Lawrence, R.K. 1995. Spring flight of *Tomicus piniperda* in relation to native Michigan pine bark beetles and their associated predators. In: Hain, F.P.; Salom, S.M.; Ravlin, W.F.; Payne, T.L.; Raffa, K.F. eds. Behavior, population dynamics and control of forest insects. Wooster, OH: Ohio State University: 524–535.

Haack, R.A.; Lawrence, R.K. 1997. Highlights of Forest Service research on *Tomicus piniperda*: 1992–1996. In: Japanese beetle and the pine shoot beetle regulatory review: proceedings of a symposium; 24–26 February 1997; Louisville, KY. Riverdale, MD: U.S. Department of Agriculture, Animal and Plant Health Inspection Service: 115–122.

Haack, R.A.; Lawrence, R.K.; Heaton, G.C. (In press). Seasonal shoot-feeding by *Tomicus piniperda* in Michigan. Great Lakes Entomologist 33.

Haack, R.A.; Lawrence, R.K.; McCullough, D.G.; Sadof, C.S. 1997b. *Tomicus piniperda* in North America: an integrated response to a new exotic scolytid. In: Gregoire, A.M.; Liebhold, A.M.; Stephen, F.M.; Day, K.R.; Salom, S.M., eds. Proceedings: Integrating cultural tactics into the management of bark beetle and reforestation pests. U.S. Department of Agriculture, Forest Service, General Technical Report NE-GTR-236: 62–72.

- Haack, R.A.; Mattson, W.J. 1993. Life history patterns of North American tree-feeding sawflies. In: Wagner, M.; Raffa, K.F., eds. *Sawfly life history adaptations to woody plants*. New York: Academic Press, Inc.: 503–545.
- Haack, R.A.; Poland, T.M.; Heilman, W.E. 1998. Using historical temperature records to adjust the federal quarantine of the pine shoot beetle. In: *Proceedings of the 13th Conference on Biometeorology and Acrobiology*: 2–6 November 1998: Albuquerque, NM. Boston, MA: American Meteorological Society: 319–322.
- Haack, R.A.; Poland, T.M.; Wu, J.; Ye, H. 1999. *Tomicus piniperda* genetics: important research needs. In: Hayes, J.L.; Raffa, K.R., eds. *Proceedings of the 2nd annual Bark Beetle Genetics Workshop*: 17–18 July: Madison, WI. U.S. Department of Agriculture, Forest Service, General Technical Report PNW-GTR-466: 44–46.
- Haack, R.A.; Slansky, F. 1987. Nutritional ecology of wood-feeding Coleoptera, Lepidoptera, and Hymenoptera. In: Slansky, F.; Rodriguez, J.G., eds. *Nutritional ecology of insects, mites, and spiders*. New York: John Wiley & Sons, Inc.: 449–456.
- Habermann, V.M.; Schopf, R. 1987. Studies on laboratory rearing, emergence and feeding of adults of the European oak bark beetle *Scolytus intricatus* (Ratz.) (Col., Scolytidae). *Journal of Applied Entomology* 104: 519–528.
- Habermann, V.M.; Schopf, R. 1988. Field studies on flight activity, adult feeding and brood success of *Scolytus intricatus* (Ratz.) (Col., Scolytidae). *Journal of Applied Entomology* 106: 252–261.
- Hain, F.P. 1987. Interactions of insects, trees, and air pollutants. *Tree Physiology* 3: 93–102.
- Hajek, A.E. 1998. Spore wars: *Entomophaga maimaiga* vs gypsy moth in North America. *Newsletter of the Michigan Entomological Society* 43(2&3): 1–2.
- Hajek, A.E.; Humber, R.A.; Elkinton, J.S. 1995. Mysterious origin of *Entomophaga maimaiga* in North America. *American Entomologist* 41: 31–42.
- Halperin, J.; Mendel, Z.; Golan, Y. 1982. On the damage caused by bark beetles to pine plantations. Preliminary report. *La-Yaraan* 32: 1–4; 31–38.
- Hansen, K. 1984. Discrimination and production of *Lymantria dispar* enantiomers by the gypsy moth and nun moth. *Physiological Entomology* 9: 9–18.
- Hansen, M.H.; Frieswyk, T.; Glover, J.F.; Kelly, J.F. 1992. The eastwide forest inventory data base: users manual. General Technical Report NC-151. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 49 p.
- Hanson, J.B. 1998. Termites. In: Tkacz, B.M.; Burdsall, H.H., Jr.; DeNitto, G.A.; Eglitis, A.; Hanson, J.B.; Kliejunas, J.T.; Wallner, W.E.; O'Brien, J.G.; Smith, E.L. Pest risk assessment of the importation into the United States of unprocessed *Pinus* and *Abies* logs from Mexico. General Technical Report FPL-GTR-104. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory: 49–51.
- Harlow, W.M. 1978. *Textbook of dendrology*. New York: McGraw-Hill. 510 p.
- Harmey, J.H.; Harmey, M.A. 1993. Detection and identification of *Bursaphelenchus* species with DNA fingerprinting and polymerase chain reaction. *Journal of Nematology* 25: 406–415.
- Harrington, T.C. 1993. Diseases of conifers caused by species of *Ophiostoma* and *Leptographium*. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. *Ceratocystis and Ophiostoma: taxonomy, ecology and pathogenicity*. St. Paul,

MN: American Phytopathological Society Press: 161–172.

Harrington, T.C.; Steimel, J.; Kile, G.A. 1998. Genetic variation in three *Ceratocystis* species with outcrossing, selfing and asexual reproductive strategies. European Journal of Forest Pathology 28: 217–226.

Harrington, T.C.; Steimel, J.P.; Wingfield, M.J.; Kile, G.A. 1996. Isozyme variation and species delimitation in the *Ceratocystis coerulescens* complex. Mycologia 88: 104–113.

Harrington, R.; Wolwod, I.; Sparks, T. 1999. Climate change and trophic interactions. Trends in Ecology and Evolution (TREE) 14: 146–150.

Harrington, T.C.; Zambino, P.J. 1990. *Ceratocystis ranaculosus*, not *Ceratocystis minor* var. *barrasii*, is the mycangial fungus of the southern pine beetle. Mycotaxon 38: 103–115.

Haugen, D.A.; Bedding, R.A.; Underdown, M.G.; Neumann, F.G. 1990. National strategy for control of *Sirex noctilio* in Australia. Australian Forest Grower 13(2): special liftout section No. 13. 8 p.

Haugen, D.A.; Underdown, M.G. 1990. *Sirex noctilio* control program in response to the 1987 Green Triangle outbreak. Australian Forestry 53: 33–40.

Haugen, L. 1998. How to identify and manage Dutch elm disease. NA-PR-07-98. Radnor, PA: U.S. Department of Agriculture, Forest Service, Northeastern Area, State and Private Forestry. 26 p.

Hausner, G.; Reid, J.; Klassen, G.R. 1993. On the phylogeny of *Ophiostoma*, *Ceratocystis* s.s., *Microascus*, and relationships within *Ophiostoma* based on partial ribosomal DNA sequences. Canadian Journal of Botany 71: 1249–1265.

He, P.; Huang, J.F. 1993. Adult behavior of *Anoplophora glabripennis*. (Translation). Acta Entomologica Sinica 36: 5155.

Heiss, E. 1980. Nomenklatorische Änderungen und Differenzierung von *Aradus crenatus* Say, 1831, und *Aradus cinnamomeus* Panzer, 1806, aus Europa und USA (Insecta: Heteroptera, Aradidae). [Nomenclatorial changes and character differences of *Aradus crenatus* Say, 1831, and *Aradus cinnamomeus* Panzer, 1806, of Europe and USA (Insecta: Heteroptera, Aradidae).] Bericht des Naturwissenschaftlich-Medizinischen Vereins in Innsbruck 67: 103–116.

Heliövaara, K.; Väisänen, R.; Immonen, A. 1991. Quantitative biogeography of the bark beetles (Coleoptera, Scolytidae) in northern Europe. Acta Forestalia Fennica 219: 1–35.

Hepting, G.H. 1974. Death of the American chestnut. Journal of Forest History 18: 60–67.

Herrera-Isla, L.; Grillo-Ravelo, H.; Isla, L.H.; Ravelo, H.G. 1989. *Spathodea campanulata* Beauv., nueva planta hospedante de *Ceratocystis fimbriata* Hell & Halst y *Xyleborus* spp. [*Spathodea campanulata* Beauv., new host plant of *Ceratocystis fimbriata* Hell. & Halst. and *Xyleborus* spp.] Centro Agricola 16: 91–93.

Herrick, O.W.; Ganser, D.A. 1987. Gypsy moth on a new frontier: Forest tree defoliation and mortality. Northern Journal of Applied Forestry 4: 128–133.

Herrick, O.W.; Ganser, D.A. 1988. Changes in forest conditions associated with gypsy moth on new frontiers of infestation. Northern Journal of Applied Forestry 5: 59–61.

- Hinds, T.E. 1972a. Ceratocystis canker of aspen. *Phytopathology* 62: 213–220.
- Hinds, T.E. 1972b. Insect transmission of Ceratocystis species associated with aspen cankers. *Phytopathology* 62: 221–225.
- Hodges, C.S.; Tenorio, J.A. 1984. Root disease of *Delonix regia* and associated tree species in the Mariana Islands caused by *Phellinus noxius*. *Plant Disease Reporter* 68: 334–336.
- Hoebke, E.R. 1999. Japanese cedar longhorned beetle in the Eastern United States. Pest Alert, APHIS 81–35–004. U.S. Department of Agriculture, Animal and Plant Health Inspection Service. 2 p.
- Holling, C.S. 1988. Temperate forest insect outbreaks, tropical deforestation, and migratory birds. *Memoirs of the Entomological Society of Canada* 146: 2142.
- Holway, D.A. 1999. Competitive mechanisms underlying the displacement of native ants by the invasive Argentine ant. *Ecology* 80: 238–251.
- Holway, D.A.; Suarez, A.V.; Case, T.J. 1998. Loss of intraspecific aggression in the success of a widespread invasive social insect. *Science* 282: 949–953.
- Horntvedt, R.; Christiansen, E.; Solheim, H.; Wang, S. 1983. Artificial inoculation with *Ips typographus*-associated blue-stain can kill healthy Norway spruce trees. *Meddelelser fra Norsk Institutt Skogforskning* 38(4): 1–20.
- Ho-shan, L. 1976. Some willow stem borers and their control measures. *Scientia Sinica* 19: 748–766.
- Houston, D.R. 1998. Beech bark disease. In: Britton, K.O., ed. *Exotic pests of eastern forests*. Asheville, N.C.: Tennessee Exotic Pest Plant Council and U.S. Department of Agriculture, Forest Service: 29–42.
- Howard, J.L. 1997. U.S. timber production, trade, consumption, and price statistics 1965–1994. General Technical Report FPL-GTR-98. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory. 75 p.
- Hsiang, T.; Edmonds, R.L.; Driver, C.H. 1989. Conidia of *Heterobasidion annosum* from *Tsuga heterophylla* forests in western Washington. *Canadian Journal of Botany* 67: 1262–1266.
- Hudak, J.; Singh, P. 1970. Incidence of *Armillaria* root rot in balsam fir infested by balsam wooly aphid. *Canadian Plant Disease Survey* 50: 99–101.
- Hüppel, A. 1970. Inoculation of pine and spruce seedlings with conidia of *Fomes annosus* (Fr.) Cke. In: Hodges, C.S.; Rishbeth, J.; Yde-Anderson, A., eds. *Proceedings of the third International Conference on Fomes annosus*; 29 July–3 August 1968; Aarhus, Denmark. Washington, DC: U.S. Department of Agriculture, Forest Service: 54–56.
- Ichinohe, M. 1988. Current research on the major nematode problems in Japan. *Journal of Nematology* 20: 184–190.
- Iede, E.T.; Penteado, S.R.C.; Schaitza, E.G. 1998. *Sirex noctilio* problem in Brazil: detection, evaluation, and control. In: Iede, E.T., ed. *Training in the control of Sirex noctilio by the use of natural enemies: proceeding of a conference*; 4–9 November 1996; Columbo, Brazil. Morgantown, WV: U.S. Department of Agriculture, Forest Service, Forest Health Technology Enterprise Team, FHTET–98–13: 45–52.
- Inouye, M.; Yamaguchi, H. 1955. Analysis of the increase in beetle population in the storm-swept areas in the

national forest of Hokkaido. I. Hokkaido Branch, Government Forest Experiment Station Special Report 4: 72-94. (English summary).

International Society of Arboriculture. 1988. Valuation of landscape trees, shrubs, and other plants. Champaign, IL: International Society of Arboriculture. 103 p.

Ito, S. 1955. Mycological flora of Japan II (translated). Basidiomycetes. Tokyo, Yokendo. v + 450 p.

Iwahori, H.; Tsuda, K.; Kanzaki, N.; Izui, K; Futai, K. 1998. PCR-RFLP and sequencing analysis of ribosomal DNA of *Bursaphelenchus* nematodes related to pine wilt disease. Fundamental and Applied Nematology 21: 655–666.

Jacksonville Port Authority. “Jaxport Trade Statistics.” (no publication date). <http://www.jaxport.com/tradestat.htm> (17 March 1999).

James, F.C.; McCulloch, C.E.; Wiedenfeld, D.A. 1996. New approaches to the analyses of population trends in land birds. Ecology 77: 13–27.

James, R.L.; Cobb, F.W., Jr.; Wilcox, W.W. 1980. Effects of photochemical oxidant injury of ponderosa and Jeffrey pines on susceptibility of sapwood and freshly cut stumps to *Fomes annosus*. Phytopathology 70: 704–708.

Jefferies, R.L.; Maron, J.L. 1997. The embarrassment of riches: atmospheric deposition of nitrogen and community and ecosystem processes. Trends in Ecology and Evolution (TREE) 12: 74–78.

Jenkins, J.C.; Aber, J.D.; Canham, C.D. 1999. Hemlock woolly adelgid impacts on community structure and N cycling rates in eastern hemlock forests. Canadian Journal of Forest Research 29: 630–645.

Jensen, T.S.; Nielsen, B.O. 1984. Evaluation of pheromone catches of the nun moth, *Lymantria monacha* L. Zeitschrift für angewandte Entomologie [Journal of Applied Entomology] 98: 399–413.

Jiang, S.D.; Wang, G.X.; Zhang, Z.Z.; Li, Y.Z. 1991. A preliminary study on the control of some stem borers of trees using microwave technology. Forest Pest and Disease 1: 20–22.

Ji-Ding, Zhao; Xiao-Qing, Zhang. 1995. Importance and distribution of Ganodermataceae in China. In: Buchanan, P.K.; Hseu, R.S.; Moncalvo, J.M., eds. Symposium Proceedings: 59A, B, Vancouver. Fifth International Mycological Congress: 1–2.

Kadlec, Z.; Stary, P; Zumr, V. 1992. Field evidence for the large pine weevil, *Hylobius abietis* as a vector of *Heterobasidion annosum*. European Journal of Forest Pathology 22: 316–318.

Kallio, T. 1970. Aerial distribution of the root-rot fungus *Fomes annosus* (Fr.) Cooke in Finland. Acta Forestalia Fennica 107: 1–55.

Kallio, T. 1971. Incidence of conidiophores of *Fomes annosus* (Fr.) Cooke on the logging waste of spruce (*Picea abies* (L.) Karst.). Acta Forestalia Fennica 117: 1–20.

Kamp, H.J. 1951. Beobachtungen über die biologie des eichensplintkäfers, *Scolytus intricatus* Rtz. [Notes on the biology of the oak bark beetle, *Scolytus intricatus* Rtz.] Anzeiger für Schädlingskunde 24: 85.

Karnavar, G.K. 1984. Preliminary studies on the use of 2-methyl-3-butene-2-ol as an attractant for the pine bark beetle, *Orthotomicus erosus*. Journal of the Royal Swaziland Society of Science and Technology 5(2): 2–4.

Keena, M.A., Shields, K.S. 1998. Get to know *Lymantria monacha* (Lepidoptera: Lymantriidae) to help prevent its introduction. Proceedings: U.S. Department of Agriculture, Interagency Gypsy Moth Research Forum 1998; 20–23 January 1998; Annapolis, MD. General Technical Report NE–248. Radnor, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 39 p.

Kelly, W.D.; Davis, T.C. 1973. Conidiophores and basidiocarps of *Fomes annosus* on pines in east central Alabama. *Phytopathology* 63: 1424.

Kile, G.A. 1980. Behavior of an *Armillaria* in some *Eucalyptus obliqua*—*Eucalyptus regnans* forests in Tasmania and its role in their decline. *European Journal of Forest Pathology* 10: 278–296.

Kile, G.A. 1993. Plant diseases caused by species of *Ceratocystis sensu stricto* and *Chalara*. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. *Ceratocystis and Ophiostoma: taxonomy, ecology and pathogenicity*. St. Paul, MN: American Phytopathological Society Press: 173–183.

Kile, G.A.; Harrington, T.C.; Yuan, Z.Q.; Dudzinski, M.J.; Old, K.M. 1996. *Ceratocystis eucalypti* sp. Nov., a vascular stain fungus from eucalypts in Australia. *Mycological Research* 100: 571–579.

Kile, G.A.; McDonald, G.I.; Byler, J.W. 1991. Chapter 8. Ecology and disease in natural forests. In: Shaw, C.G., III; Kile, G.A., eds. *Armillaria root disease*. Agriculture Handbook 691. Washington, DC: U.S. Department of Agriculture, Forest Service: 102–121.

Kile, G.A.; Walker, J. 1987. *Chalara australis* s. nov. (Hyphomycetes), a vascular pathogen of *Nothofagus cunninghamii* (Fagaceae) in Australia and its relationship to other *Chalara* species. *Australian Journal of Botany* 35: 1–32.

Kim, K.C.; McPherson, B.A. 1993. Insect pests and evolution. In: Kim, K.C.; McPherson, B.A., eds. *Evolution and insect pests: patterns of variation*. New York: John Wiley & Sons: 3–25.

Kimmins, J.P. 1972. Relative contributions of leaching, litter-fall and defoliation by *Neodiprion sertifer* (Hymenoptera) to the removal of cesium-134 from red pine. *Oikos* 23: 226–234.

King, E.G.; Spink, W.T. 1969. Foraging galleries of the Formosan subterranean termite, *Coptotermes formosanus*, in Louisiana. *Annals of the Entomological Society of America* 62: 537–542.

Kiritschenko, A.N. 1955. True bugs. In: Stackelberg, A., ed. *Pests of forests*, Vol. 2. Moscow and Leningrad: Academiya Nauk SSSR: 737–757. (In Russian).

Kirk, A.A. 1974. Siricid woodwasps and their associated parasitoids in the southeastern United States (Hymenoptera: Siricidae). *Journal of the Georgia Entomological Society* 9: 139–144.

Kirk, A.A. 1975. Siricid woodwasps and their associated parasitoids in the southwestern United States (Hymenoptera: Siricidae). *Pan-Pacific Entomology* 51: 57–61.

Kiyohara, T; Tokushige, Y. 1971. Inoculation experiments of a nematode, *Bursaphelenchus* sp. onto pine trees. *Journal of the Japanese Forest Society* 53: 210–218.

Kolk, A. 1985. Role of insects in oak dieback. *Las Polski* 12: 18.

Korhonen, K. 1981. Some aspects of the life cycle studies on *Heterobasidion annosum* and *Armillariella mellea*. In: Root and butt rots in Scots pine stands. European Regional Meeting, IUFRO Working Party S2.06.01. Poznan,

Poland.: Polish Academy of Sciences: 115–123.

Korhonen, K.; Capretti, P.; Moriondo, F.; Mugnai, L. 1989. A new breeding group of *Heterobasidion annosum* found in Europe. In: Proceedings: 7th International Conference on root and butt rots. Victoria, Canada: Forestry Canada: IUFRO: 20.

Korhonen, K.; Stenlid, J. 1998. Chapter 4. Biology of *Heterobasidion annosum*. In: Woodward, S.; Stenlid, J.; Karjalainen, R.; Hüttermann, A., eds. *Heterobasidion annosum: biology, ecology, impact and control*. Oxon: CAB International: 43–70.

Krivolutskaya, G.O. 1983. Ecological and geographical characteristics of the northern Asian barkbeetle fauna (Coleoptera, Scolytidae). Entomological Review 62: 52–67.

Krokene, P.; Solheim, H. 1997. Growth of four bark-beetle-associated blue-stain fungi in relation to the induced wound response in Norway spruce. Canadian Journal of Botany 75: 618–625.

Krokene, P.; Solheim, H. 1998a. Assessing the virulence of four bark beetle-associated bluestain fungi using Norway spruce seedlings. Plant Pathology 47: 537–540.

Krokene, P.; Solheim, H. 1998b. Pathogenicity of four blue-stain fungi associated with aggressive and nonaggressive bark beetles. Phytopathology 88: 39–44.

Krol, A. 1982. Secondary pests and wood borers of *Quercus robur* in the region of the Tarnobrzeg sulphur works. Acta Agraria et Silvestris 21: 3–13.

Krombein, K.V.; Hurd, P.D.; Smith, D.R.; Burks, B.D. 1979. Catalogue of Hymenoptera in America north of Mexico, Vol. 1, (Symphyta and Apocrita). Washington, DC: Smithsonian Institution Press: 125–128.

Kryukova, E.A. 1976. Insects and vascular mycosis of oak. Zashchita Rastenii 5: 42–43.

Kucera, D. 1996. Risk assessment—Asian longhorned beetle (ALB). Washington, DC: U.S. Department of Agriculture, Forest Service, State and Private Forestry. Unpublished report. 11 p.

Kulman, H.M. 1971. Effects of insect defoliation on the growth and mortality of trees. Annual Review of Entomology 16: 289–324.

Lackner, A.L.; Alexander, S.A. 1982. Occurrence and pathogenicity of *Verticiladiella procera* in Christmas tree plantations in Virginia. Plant Disease 66: 211–212.

Lackner, A.L.; Alexander, S.A. 1984. Incidence and development of *Verticiladiella procera* in Virginia Christmas tree plantations. Plant Disease 68: 210–212.

Lai, P.Y. 1977. Biology and ecology of the Formosan subterranean termite, *Coptotermes formosanus*, and its susceptibility to the entomogenous fungi, *Beaveria bassiana* and *Metarrhizium anisopliae*. Ph.D. dissertation, University of Hawaii, Honolulu. 140 p.

Långström, B. 1979. Margborrarnas forokning I rojningsavfall av tall och kronskadegorelse pa kvarstaaende trad [Breeding of pine shoot beetles in cleaning waste of Scots pine and subsequent shoot-damage on remaining trees.] Swedish Univ. Agri. Sci., Forest Entomology Reports 1. 52 p. (Cited by Långström 1983).

Långström, B. 1980. Distribution of pine shoot beetle attacks within the crown of Scots pine. Studia Forestalia

Suecica 154. 25 p.

Långström, B. 1983. Life cycles and shoot-feeding of the pine shoot beetles. *Studia Forestalia Suecica* 163: 1–29.

Långström, B.; Hellqvist, C. 1990. Spatial distribution of crown damage and growth losses caused by recurrent attacks of pine shoot beetles in pine stands surrounding a pulp mill in southern Sweden. *Journal of Applied Entomology* 110: 261–269.

Långström, B.; Lieutier, F.; Hellqvist, C.; Vouland, C. 1995. North American pines as hosts for *Tomicus piniperda* (L.) (Col., Scolytidae) in France and Sweden. In: Hain, F.P.; Salom, S.M.; Ravlin, W.F.; Payne, T.L.; Raffa, K.F., eds. *Proceedings of the joint IUFRO conference on working parties S2.07-05 and S2.07-06: 6–11 February 1994: Maui, HI: Behavior, population dynamics and control of forest insects.* Wooster, OH: Ohio State University Press.: 547–557.

Larochelle, A. 1984. Les punaises terrestres (Hemipères: Geocorises) du Québec. [The terrestrial bugs (Hemiptera: Geocoridae) of Quebec.] *Association des entomologistes amateurs du Québec. Supplement 3.* 513 p.

Larsen, M.J.; Cobb, L.A. 1990. *Phellinus* (Hymenochaeteaceae): A survey of the world taxa. *Synopsis Fungorum* 3: 1–206.

Lattin, J.D.; Equihua-Martinez, A. 1996. Riesgos fitosanitarios de la importacion de Madera en rollo a Mexico. [Phytosanitary risks from the importation of logs into Mexico.] *Agrociencia* 30: 309–312.

Lawrence, R.K.; R.A. Haack. 1995. Susceptibility of selected species of North American pines to shoot feeding by an Old World scolytid: *Tomicus piniperda*. In: Hain, F.P.; Salom, S.M.; Ravlin, W.F.; Payne, T.L.; Raffa, K.F., eds. *Behavior, Population Dynamics and Control of Forest Insects. Proceedings of the International Union of Forestry Research Organizations Joint Conference; 6–11 February 1994; Maui, HI:* 536–546.

Lee, S.S.; Zakaria, M. 1993. Fungi associated with heart rot of *Acacia mangium* in Peninsular Malaysia. *Journal of Tropical Forest Science* 5: 479–484.

Lei, Y.; Yin, S.; Zhang, X. 1993. Integrated management of poplar longicorns. *Forest Research* 6 (Memoirs): 41.

Lekander, B.; Bejer-Petersen, B.; Kangas, E.; Bakke, A. 1977. The distribution of bark beetles in the Nordic countries. *Acta Entomologica Fennica* 32: 1–37.

Leonard, D.E. 1981. Bioecology of the gypsy moth. In: Doane, C.C.; McManus, M.L., eds. *The gypsy moth: research toward integrated pest management.* U.S. Department of Agriculture, Forest Service Tech. Bull. 1584: 9–29.

Lerdau, M. 1996. Insects and ecosystem function. *Trends in Ecology and Evolution (TREE)* 11: 151.

Leston, D. 1951a. *Aradus cinnamomeus* Panz. (Hem., Aradidae) a bark-bug new to Britain. *Entomologist's Monthly Magazine* 87: 285–286.

Leston, D. 1951b. *Aradus cinnamomeus* Panz. (Hem., Aradidae) in Surrey. *Entomologist's Monthly Magazine* 87: 286.

Leuschner, W.A.; Young, J.A.; Waldon, S.A.; Ravlin, F.W. 1996. Potential benefits of slowing the gypsy moth's spread. *Southern Journal of Applied Forestry* 20: 65–73.

Li, D.; Liu, Y.N. 1997. Relationship between sexual development and the days after emergence, supplementary feeding and copulation of *Anoplophora glabripennis* Motschulsky. (In Chinese; English abstract). Journal of Northwest Forestry College 12: 19–23.

Li, W.; Wu, C. 1993. Integrated management of longhorn beetles damaging poplar trees. Beijing, China: Forest Press. 290 p.

Liang, C.; Li, G.H.; Li, G.W.; Gao, R.. 1997. Toxicity analysis of ten pesticides on controlling *Anoplophora glabripennis*. Forest Research 10: 325–327.

Liebold, A.M.; Elkinton, J.S. 1988. Techniques for estimating the density of late-instar gypsy moth *Lymantria dispar* (Lepidoptera: Lymantriidae) populations using frass drop and frass production measurements. Environmental Entomology 17: 381–384.

Liebold, A.; Luzander, E.; Halverson, J.; Elmes, G. 1993. The spatial dynamics of invasions by exotic forest pests. In: Liebold, A.M.; Barrett, H.R. Proceedings: spatial analysis and forest pest management; 27–30 April 1992; Mountain Lakes, VA. General Technical Report NE-175: 125–132. Radnor PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station.

Liebold, A.M.; MacDonald, W.L; Bergdahl, D.; Mastro, V.C. 1995. Invasion by exotic forest pests: a threat to forest ecosystems. Forest Science Monograph 30: 1–49. Bethesda, MD: Society of American Foresters.

Limit, M.J. 1987. The insect component of pine wilt disease in the United States. In: Wingfield, M., ed. Pathogenicity of the pine wood nematode. St. Paul, MN: American Phytopathological Society Press: 66–73.

Linsley, E.G. 1961. The Cerambycidae of North America, Part I, Introduction. Berkeley, CA: University of California Press: University of California Publications in Entomology 18: 1–135.

Lipa, J.J.; Glowacka, B. 1995. Nun moth (*Lymantria monacha* L.) in Europe and Poland. In: Proceedings: annual gypsy moth review. Traverse City, MI: Michigan Department of Agriculture: 138–158.

Lipa, J.J., Kolk, A. 1995. The recent situation of the gypsy moth (*Lymantria dispar*) and other Lymantriids in Poland. Bulletin OEPP/EPPO 25: 1–7.

Little, E.L., Jr. 1979. Checklist of United States trees (native and naturalized). Agriculture Handbook No. 541. Washington, DC: U.S. Department of Agriculture, Forest Service. 375 p.

Little, E.L., Jr.; Skolmen, R.G. 1989. Common forest trees of Hawaii (native and introduced). Agriculture Handbook No. 679. Washington, DC: U.S. Department of Agriculture, Forest Service. 321 p.

Liu, H.Z. 1988. Investigations of the death reason of elms as well as a discussion of the existence of Dutch elm disease in China. Forest Research 1: 405–412. (In Chinese).

Liu, S.R.; Zhu, C.X.; Lu, X.P. 1992. Field trials of controlling several cerambycid larvae with entomopathogenic nematodes. (Abstract). Chinese Journal of Biological Control 8: 176.

Long Beach Port Authority. “The Port of Long Beach. Annual Cargo Volumes.” (no publication date). <http://www.polb.com/primary.htm> (8 June 1999).

Los Angeles Port Authority. “Facts and Figures.” (no publication date). <http://www.portla.com/Histlook.htm> (17 March 1999).

- Louda, S.M.; Kendall, D.; Connor, J.; Simberloff, D. 1997. Ecological effects of an insect introduced for the biological control of weeds. *Science* 277: 1088–1090.
- Lovett, G.M.; Reusink, A.E. 1995. Carbon and nitrogen mineralization from decomposing gypsy moth frass. *Oecologia* 104: 133–138.
- MacKenzie, M. 1992. Potential forest exports and pests from New Zealand. In: Symposium proceedings: log imports and introduced forest pests into the Pacific Northwest; 21–23 April 1992, Corvallis OR: Oregon State University. 7 p.
- Madden, J.L. 1988. *Sirex* in Australasia. In: Berryman, A.A., ed. *Dynamics of forest insect populations*. New York: Plenum: 407–429.
- Maderni, J.F.P. 1998. *Sirex noctilio* F.: present status in Uruguay. In: Iede, E.T., ed. *Training in the control of *Sirex noctilio* by the use of natural enemies: proceeding of a Conference*; 4–9 November 1996; Columbo, Brazil. Morgantown, WV: U.S. Department of Agriculture, Forest Service, Forest Health Technology Enterprise Team, FHTET- 98-13: 81–82.
- Malakoff, D. 1999. Plan to import exotic beetle drives some scientists wild. *Science* 284: 1255.
- Mallock, D.; Blackwell, M. 1993. Dispersal biology in the Ophiostomatoid fungi. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F. eds. *Ceratocystis and Ophiostoma: taxonomy, ecology and pathogenicity*. St. Paul, MN: American Phytopathological Society Press: 195–206.
- Mamiya, Y. 1975. The life history of the pine wood nematode, *Bursaphelenchus lignicolus*. *Japanese Journal of Entomology* 5: 16–25. (In Japanese, English summary).
- Mamiya, Y. 1983. Pathology of the pine wilt disease caused by *Bursaphelenchus xylophilus*. *Annual Review of Phytopathology* 21: 201–220.
- Mamiya, Y. 1984. Perspectives of pine wilt disease in Japan, historical review. In: Dropkin, V.H., ed. *Proceedings of the United States–Japan seminar: resistance mechanisms of pines against pine wilt disease*; 7–11 May 1984, Honolulu, HI: 6–11.
- Mamiya, Y. 1987. Origin of the pine wood nematode and its distribution outside the United States. In: Wingfield, M.J., ed. *Pathogenicity of the pine wood nematode*. St. Paul, MN: American Phytopathological Soc. Press: 59–66.
- Mamiya, Y.; Enda, N. 1972. Transmission of *Bursaphelenchus lignicolus* (Nematoda: Aphelenchoididae) by *Monochamus alternatus* (Coleoptera: Cerambycidae). *Nematologica* 18: 159–162.
- Mampe, C.D. 1990. Termites. In: Mallis, A., ed. *Handbook of pest control. The behavior, life history and control of household pests*. Cleveland, OH: Franzak and Foster, Co.: 201–262.
- Manion, P.D. 1981. Tree disease concepts. Englewood Cliffs, NJ: Prentice-Hall Inc.
- Markovic, C.; Stojanovic, A. 1996. Parasitoid complex of *Scolytus intricatus* Ratz. (Coleoptera, Scolytidae) in the region of Serbia. *Zastita Bilja* 47: 255–266.
- Martin, D.A. 1998. Statistics of Hawaiian agriculture 1996. Honolulu, HI: Hawaii Agricultural Statistics Service. 106 p.

Martinez, A.T.; Barrasa, J.M.; Martinez, M.J.; Almendros, G.; Blanco, M.; Gonzalez, A.E. 1995. *Ganoderma australe*: a fungus responsible for extensive delignification of some austral hardwoods. In: Buchanan, P.K.; Hseu, R.S.; Moncalvo, J.M., eds. Symposium proceedings: 59A ,B, Vancouver. Fifth International Mycological Congress: 67–77.

Mason, C.J.; McManus, M.L. 1981. Larval dispersal of the gypsy moth. In: Doane, C.C.; McManus, M.L., eds. The gypsy moth: Research toward integrated pest management. Washington, DC: U.S. Department of Agriculture, Technical Bulletin 1584: 161–202.

Mastro, V.; Cavey, J. 1996. *Anoplophora glabripennis*, an Asian longhorned beetle. Science Advisory Panel Report, October 25, 1996, for APHIS PPQ. Unpublished agency report. 7 p.

Mastro, V.C.; O'Dell, T.M.; Schwalbe, C.P. 1989. Genetic control of Lymantriidae: prospects for gypsy moth management. In: Proceedings: Lymantriidae: a comparison of features of new and old world tussock moths; 26 June–1 July 1988; New Haven CT. General Technical Report NE-123. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station: 275–302.

Matsuda, R. 1977. The insects and arachnids of Canada. Part 3. The Aradidae of Canada. Hemiptera: Aradidae. Ottawa, ON: Research Branch, Canada Department of Agriculture, Publication No. 1634. 116 p.

Mattson, D.J.; Blanchard, B.M.; Knight, R.R. 1992. Yellowstone grizzly bear mortality, human habitation, and whitebark pine seed crops. Journal of Wildlife Management 56: 432.

Mattson, D.J.; Blanchard, B.M.; Knight, R.R. 1991a. Food habits of Yellowstone grizzly bears, 1977–1987. Canadian Journal of Zoology 69: 1619.

Mattson, W.J. 1998. Exotic insects in North American forests: ecological systems forever altered. In: Britton, K.O., ed. Exotic pests of eastern forests. Asheville, NC: Tennessee Exotic Pest Plant Council and U.S. Department of Agriculture, Forest Service: 187–194.

Mattson, W.J.; Addy, N.D. 1975. Phytophagous insects as regulators of forest primary productivity. Science 190: 515–522.

Mattson, W.J.; Birr, B.A.; Lawrence, R.K. 1994a. Variation in the susceptibility of North American white spruce populations to the gall-forming adelgid, *Adelges abietis* (Homoptera: Adelgidae). In: Price, P.W.; Mattson, W.J.; Baranchikov, Y.N., eds. The ecology and evolution of gall-forming insects. General Technical Report NC-174. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station: 135–147.

Mattson, W.J.; Herms, D.A.; Witter, J.A.; Allen, D.C. 1991b. Woody plant grazing systems: North American outbreak folivores and their host plants. In: Baranchikov, Y.; Mattson, W.J.; Hain, F.P.; Payne, T.L., eds. Forest insect guilds: patterns of interaction with host plants. GTR-NE-153. St. Paul, MN: U.S. Department of Agriculture, Forest Service : 53–84.

Mattson, W.J.; Lawrence, R.K.; Haack, R.A.; Herms, D.A.; Charles, P.-J. 1988. Defensive strategies of woody plants against different insect feeding guilds in relation to plant ecological strategies and intimacy of association with insects. In: Mattson, W.J.; Levieux, J.; Bernard-Dagan, C., eds. Mechanisms of woody plant defenses again. New York: Springer-Verlag: 3–38.

Mattson, W.J.; Niemela, P.; Millers, I.; Inganzo, Y. 1994b. Immigrant phytophagous insects on woody plants in the United States and Canada: an annotated list. General Technical Report GTR-NC-169. U.S. Department of Agriculture, North Central Forest Experiment Station. 27 p.

McCracken, F.I.; Burkhardt, E.C. 1977. Destruction of sycamore by canker stain in the midsouth. Plant Disease Reporter 61: 984–986.

McCullough, D.G.; Sadof, C.S. 1998. Evaluation of an integrated management and compliance program for *Tomicus piniperda* (Coleoptera: Scolytidae) in pine Christmas tree fields. Journal of Economic Entomology 91: 785–795.

McKeever, D.B.; Howard, J.L. 1996. Value of timber and agricultural products in the United States, 1991. Forest Products Journal 46 (10): 45–50.

Medvedev, G.S. 1993. Keys to the insects of the European part of the USSR. Vol. 3 Hymenoptera, Part 4 Symphyta. New Delhi: Amerind. Pub. Co.: 372–377.

Melville, R.; Heybroek, H. 1971. The elms of the Himalaya. Kew Bulletin 26: 5–28.

Mendel, Z. 1983. Seasonal history of *Orthotomicus erosus* (Coleoptera: Scolytidae) in Israel. Phytoparasitica 11: 13–24.

Mendel, Z.; Halperin, J. 1982. The biology and behavior of *Orthotomicus erosus* in Israel. Phytoparasitica 10(2): 169–181.

Miami Port Authority. “Port of Miami. Cargo.” (no publication date).  
<http://www.metro-dade.com/portofmiami/cargo1.htm> (17 March 1999).

Michalski, J. 1973. Revision of the palearctic species of the genus *Scolytus* Geoffroy (Coleoptera: Scolytidae). Polska Akademia Nauk Zaklad Zoologii Systematycznej i Doswiadczałnej. Warszawa: Państwowe Wydawn. Naukowe. 214 p.

Miller, R.O.; Bloese, P.D.; Hanover, J.W.; Haack, R.A. 1991. Paper birch and European white birch vary in growth and resistance to bronze birch borer. Journal of the American Society of Horticultural Science 116: 580–584.

Miller, W.E. 1967. The European pine shoot moth—ecology and control in the lake states. Forest Science Monograph 14. Washington, DC: Society of American Foresters. 72 p.

Modern Materials Handling and National Wooden Pallet and Container Association (NWPCA). 1998. A report on pallet use and applications among buyers of materials handling systems. (A biannual publication). New York: Cahners Business Information. 55 p.

Moeller, G.H.; Marler, R.L.; McCay, R.E.; White, W.B. 1977. Economic analysis of the gypsy moth problem in the northeast, III: Impacts on homeowners and managers of recreation areas. Research Paper NE-360. Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 9 p.

Moncalvo, J.-M.; Huei-Fang, W.; Hsi-Hua, W.; Ruey-Shyang, H. 1995. The use of ribosomal DNA sequence data for species identification and phylogeny in the Ganodermataceae. In: Buchanan, P.K.; Hseu, R.S.; Moncalvo, J.M., eds. Symposium Proceedings: 59A, B, Vancouver. Fifth International Mycological Congress: 31–44.

Montgomery, M.E.; Wallner, W.E. 1988. The gypsy moth, a westward migrant. In: Berryman, A.A., ed. Dynamics of forest insect populations. Plenum: 353–375.

Mordue, J.E.M.; Gibson, I.A.S. 1976. *Corticium salmonicolor*. CMI (Commonwealth Mycological Institute) descriptions of pathogenic fungi and bacteria No. 511. Kew, Surrey, United Kingdom: Commonwealth

Mycological Institute. 2 p.

Morgan, F.D.; Stewart, N.C. 1966. The biology and behaviour of the woodwasp *Sirex noctilio* F. in New Zealand. Transactions of the Royal Society of New Zealand (Zoology) 7: 195–204.

Morgan, M.G.; Henrion, M. 1990. Uncertainty: a guide to dealing with uncertainty in quantitative risk and policy analysis. New York: Cambridge University Press. 332 p.

Morgan-Jones, G. 1967. *Ceratocystis fimbriata*. C.M.I. descriptions of pathogenic fungi and bacteria. No. 141. Kew, Surrey, United Kingdom: Commonwealth Mycological Institute. 2 p.

Morrison, D.J.; Redfern, D.B. 1994. Long-term development of *Heterobasidion annosum* in basidiospore-infected Sitka spruce stumps. Plant Pathology 43: 897–906.

Mota, M.M.; Braasch, H; Bravo, M.A.; Penas, A.C.; Burgermeister, W.; Metge, K.; Sousa, E. 1999. First report of *Bursaphelenchus xylophilus* in Portugal and in Europe. Nematology 1: 727–734.

Mourichon, X. 1994. Serious citrus dieback in Colombia caused by *Ceratocystis fimbriata*. Fruits Paris 49: 5–6, 415–416.

Munro, J.W. 1926. British bark-beetles. Forestry Commission Bulletin 8: 1–77.

Myers, J.H.; Savoid, A.; van Randen, E. 1998. Eradication and pest management. Annual Review Entomology 43: 471–491.

Nag Raj, T.B.; Kendrick, W.B. 1993. The anamorph as genetic determinant in the holomorph: the *Chalara* connection in the Ascomycetes, with special reference to the Ophiostomatoid fungi. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. *Ceratocystis and Ophiostoma: taxonomy, ecology and pathogenicity*. St. Paul, MN: American Phytopathological Society Press: 61–70.

Naiman, R.J.; Decamps, H. 1997. The ecology of interfaces: riparian zones. Annual Review of Ecology and Systematics 28: 621–658.

NAPPO. 1993. NAPPO standard for plant pest risk analysis. NAPPO Document No. 934–004. Villahermosa, Tabasco. 9 p. + figs. (Available at <http://www.nappo.org/prae.htm>).

Nash, B.; O'Brien, J.T. 1989. *Cryphonectria* canker of oak. NA-FB-35. Radnor, PA: U.S. Department of Agriculture, Forest Service, Northeastern Area, State and Private Forestry. 1 p.

National Christmas Tree Association. 2000a. “Christmas Tree Facts.” <http://www.christree.org/factnfig/facts.html> (28 March 2000).

National Christmas Tree Association. 2000b. “Tree Farming.” <http://www.christree.org/factnfig/facts.html> (28 March 2000).

Neumann, F.G. 1979. Beetle communities in eucalypt and pine forests in northeastern Victoria. Australian Forestry Research 9: 277–293.

Neumann, F. G. 1987. Introduced bark beetles on exotic trees in Australia with special reference to infestations of *Ips grandicollis* in pine plantations. Australian Forestry 50: 166–178.

Neumann, F.G.; Minko, G. 1981. The *Sirex* wood wasp in Australian radiata pine plantations. *Australian Forestry* 44: 46–63.

Newhouse, J.R. 1990. Chestnut blight. *Scientific American* 263 (1): 106–111.

Newson, M.D.; Calder, I.R. 1989. Forests and water resources: Problems of prediction on a regional scale. *Philosophical Transactions of the Royal Society of London* B324: 283–298.

Niemelä, T.; Korhonen, K. 1998. Taxonomy of the genus *Heterobasidion*. In: Woodward, S.; Stenlid, J.; Karjalainen, R.; Hüttermann, A., eds. *Heterobasidion annosum*: biology, ecology, impact and control. Oxon: CAB International: 27–34.

Niemela, P.; Mattson, W.J. 1992. Invasion of North American forests by European phytophagous insects: why so many? In: Proceedings of the 1992 Society of American Foresters national convention: American forestry—an evolving tradition; 25–27 October 1992; Richmond, VA. Bethesda, MD: Society of American Foresters: 202–208.

Niemelä, P.; Mattson, W.J. 1996. Invasion of North American forests by European phytophagous insects: legacy of the European crucible?. *BioScience* 46: 741–753.

Niemelä, J.; Spence, J.R., 1994. Community impacts of an exotic carabid: *Pterostichus melanarius* in western Canadian forests. In: Desender, K.; Dufrêne, M.; Loreau, M.; Luff, M.L.; Maelfait, J-P., eds. Carabid beetles: ecology and evolution. Dordrecht; Boston, MA: Kluwer Academic Publishers: 331–335.

Nilssen, A.C. 1984. Long range aerial dispersal of bark beetles and bark weevils Coleoptera, Scolytidae and Curculionidae in northern Finland. *Annales Entomologica Fennici* 50: 37–42.

Novak, P. 1988. Evaluation of diseased oak stands in the Vihorlat area. *Lesnictvi* 34: 1093–1102.

Novak, V.; Hroznika, F.; Stary, B. 1976. Atlas of insects harmful to forest trees, Vol. 1. New York: Elsevier Scientific Publishing Co. 125 p.

Nowak, D.J. 1993. Compensatory value of an urban forest: an application of tree-value formula. *Journal of Arboriculture* 19: 173–177.

Nowak, D.J. 1994. Urban forest structure: the state of Chicago's urban forest. In: McPherson, E.G.; Nowak, D.J.; Rowntree, R.A., eds. Chicago's urban forest ecosystem: results of the Chicago urban forest climate project. General Technical Report NE-GTR-186: 3–18; 140–164. Radnor, PA: U.S. Department of Agriculture, Forest Service.

Nowak, D.J.; Crane, D.E. (In press). The urban forest effects (UFORE) model: quantifying urban forest structure and functions. In: Hansen, M., ed. Second international symposium: integrated tools for natural resources inventories in the 21st century. General Technical Report. St. Paul, MN: U.S. Department of Agriculture, Forest Service.

Nowak, D.J.; Crane, D.E.; Stevens, J.C.; Ibarra, M. (In review). Brooklyn's urban forest. General Technical Report. Radnor, PA: U.S. Department of Agriculture, Forest Service.

Nuorteva, M.; Laine, L. 1968. Über die Möglichkeiten der Insekten als Überträger des Wurzelschwamms (*Fomes annosus* (Fr.) Cooke). [Concerning the possibilities of insects as carriers of root rot (*Fomes annosus* (Fr.) Cooke).] *Annales Entomologica Fennici* 34: 113–135.

Nuttall, M.J. 1989. *Sirex noctilio* F., sirex wood wasp (Hymenoptera: Siricidae). In: Cameron, P.J.; Hill, R.L.; Thomas, W.P., eds. Technical Communication No. 10. A review of biological control of insect pests and weeds in New Zealand 1874 to 1987. Wallingford, United Kingdom: CAB International Institute of Biological Control: 299–306.

Ohmart, C.P. 1982. Insects associated with *Pinus radiata* throughout the world: an annotated bibliography. Canberra, Australia: Commonwealth Scientific and Industrial Research Organization, Division of Forest Research, Report No. 9. 81 p.

Oi, F.M. “Formosan subterranean termites.” August 1997. <http://www.aces.edu/department/ipm/formoterm.htm> (21 June 1999).

Oliveira, E.B.; Penteado, S.R.C.; Iede, E.T. 1998. Forest management for the prevention and control of *Sirex noctilio* in *Pinus taeda*. In: Iede, E.T., ed. Training in the control of *Sirex noctilio* by the use of natural enemies: proceeding of a Conference; 4–9 November 1996; Columbo, Brazil. Morgantown, WV: U.S. Department of Agriculture, Forest Service, Forest Health Technology Enterprise Team, FHTET-98-13: 67–75.

Orians, G.H. 1986. Site characteristics favoring invasions. In: Mooney, H.A.; Drake, J.A., eds. Ecology of biological invasions of North America and Hawaii. New York: Springer-Verlag: 131–148.

Orr, R.L., Cohen, S.D.; Griffin, R.L. 1993. Generic non-indigenous pest risk assessment process (for estimating pest risk associated with the introduction of non-indigenous organisms). Hyattsville, MD: U.S. Department of Agriculture, Animal and Plant Health Inspection Service. 40 p. (Unpublished report).

Parmesan, C.; Ryrholm, N.; Stefanescu, C.; Hill, J.K.; Thomas, D.D.; Descimon, H.; Huntley, B.; Kaila, L.; Kullberg, J.; Tammaru, T.; Tennent, W.J.; Thomas, J.A.; Warren, M. 1999. Poleward shifts in geographical ranges of butterfly species associated with regional warming. *Nature* 399: 579–583.

Parshley, H.M. 1921. Essay on the American species of *Aradus* (Hemiptera). *Transactions of the American Entomological Society* 19: 1–106.

Pavlik, S. 1994. The effect of extreme site conditions on the dessication of oaks and damage by woodpeckers. *Lesnický Casopis* 40: 153–158.

Payne, B.R.; White, W.B.; McCay, R.E.; McNichols, R.R. 1973. Economic analysis of the gypsy moth problem in the Northeast, II: applied to residential property. Research Paper NE-285. Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 6 p.

Pegler, D.N.; Waterston, J.M. 1968. *Phellinus noxius*. C.M.I. descriptions of pathogenic fungi and bacteria. No. 195. Kew, Surrey, United Kingdom: Commonwealth Mycological Institute. 2 p.

Perry, D.A. 1988. Landscape patterns and forest pests. *Northwest Environmental Journal* 4: 213–228.

Perry, D.A.; Amaranthus, M.P.; Borchers, J.G.; Borchers, S.L.; Brainerd, R.E. 1989. Bootstrapping in ecosystems. *BioScience* 39: 302–327.

Pettersen, H. 1976. Parasites (Hym., Chalcidoidea) associated with bark beetles in Norway. *Norwegian Journal of Entomology* 23: 75–77.

Pimentel, D. 1986. Biological invasions of plants and animals in agriculture and forestry. In: Mooney, H.A.; Drake, J.A., eds. Ecology of biological invasions of North America and Hawaii. Ecological Studies Vol. 58. New York:

Springer–Verlag: 149–162.

Pimentel, D.; Lach, L.; Zuniga, R.; Morrison, D. 2000. Environmental and economic costs associated with nonindigenous species in the United States. *Bioscience* 50: 53–65.

Pine Shoot Beetle Science Panel. 1993. Interagency Working Group; 12–14 January 1993; Alexandria, VA. U.S. Department of Agriculture, Forest Service and Animal and Plant Health Protection Service. Meeting notes. (Unpublished report).

Pipe, N.D.; Buck, K.W.; Brasier, C.M. 1997. Comparison of the cerato-ulmin (cu) gene sequences of the Himalayan Dutch elm disease fungus with those of *O. ulmi* and *O. novo-ulmi* suggests that the cu gene of *O. novo-ulmi* is unlikely to have been acquired recently from *O. himal-ulmi*. *Mycological Research* 101: 415–421.

Piri, T. 1996. The spreading of the S type of *Heterobasidion annosum* from Norway spruce stumps to the subsequent tree stands. *European Journal of Forest Pathology* 26: 193–204.

Poland, T.M.; Haack, R.A.; Petrice, T.R. 1998. Chicago joins New York in battle with the Asian longhorned beetle. *Newsletter of the Michigan Entomological Society* 43 (4): 15–17.

Poland, T.M.; Haack, R.A.; Petrice, T.R.; Sadof, C.S.; Onstad, D.W. (In press). Dispersal of *Tomicus piniperda* (Coleoptera: Scolytidae) from operational and simulated millyards. *The Canadian Entomologist*.

Pontis, R.E. 1951. A canker disease of the coffee tree in Colombia and Venezuela. *Phytopathology* 41: 178–184.

Powell, D.S.; Faulkner, J.L.; Darr, D.R.; Zhu, Z.; MacCleery, D.W. 1993. Forest resources of the United States, 1993. General Technical Report, GTR-RM-234. U.S. Department of Agriculture, Forest Service. 132 p.

Qin, X.; Gao, R.; Li, J.; Hao, W.; Liu, K. 1985. Preliminary investigation on the resistance of different clones of poplars to *Anoplophora glabripennis* (Motsch.). *Scientia Silvae Sinicae* 2: 310–314.

Quammen, D. 1998. Planet of weeds. *Harper* 297 (1781): 57–69.

Quednau, F.W. 1990. Introduction, permanent establishment, and dispersal in eastern Canada of *Olesicampe geniculatae* Quednau and Lim (Hymenoptera: Ichneumonidae), an important biological control agent of the mountain ash sawfly, *Pristiphora geniculata* (Hartig) (Hymenoptera: Tenthredinidae). *The Canadian Entomologist* 122: 921–934.

Questienne, P. 1979. Notes sur quelques insectes nuisibles aux pins au Maroc. [Notes on some insects which are harmful to pines in Morocco.] *Annales de Gembloux* 85: 113–130.

Quimby, J.W. 1987. Impact of gypsy moth defoliation on forest stands. In: Fosbroke, S.; Hicks, R.R., eds. *Coping with the gypsy moth in the new frontier*. Morgantown, WV: West Virginia University Books, Office of Publications: 21–38.

Reardon, R.; Dubois, N.; McLane, W. 1999. *Bacillus thuringiensis*—for managing gypsy moth. In: Twardus, D.B., ed. Morgantown, WV: U.S. Department of Agriculture, Forest Service, Northeastern Area State and Private Forestry, Gypsy Moth News 47: 2.

Reardon, R.; Hajek, A. 1993. *Entomophaga maimaiga* in North America: a review. Morgantown, WV: U.S. Department of Agriculture, Forest Service, Northeastern Area Forest Health Protection, Appalachian Integrated Pest Management, NA-TP-15-93. 22 p.

Redfern, D.B. 1984. Factors affecting the spread of *Heterobasidion annosum* in plantations. In: Kile, G.A., ed. Proceedings: Seventh IUFRO Conference on Root and Butt Rots of Forest Trees. Melbourne, Australia: CSIRO: 104–114.

Redford, K.H. 1992. The empty forest. BioScience 42: 412–422.

Riga, E.; Beckenback, K; Webster, J.M. 1992. Taxonomic relationships of *Bursaphelenchus xylophilus* and *B. mucronatus* based on interspecific and intraspecific cross-hybridization and DNA analysis. Fundamental and Applied Nematology 15: 391–395.

Riga, E.; Sutherland, J.R.; Webster, J.M. 1991. Pathogenicity of pinewood nematode isolates and hybrids to Scots pine seedlings. Nematologica 37: 285–292.

Rishbeth, J. 1951. Observations on the biology of *Fomes annosus* with particular reference to East Anglican pine plantations. II. Spore production, stump infection and saprophytic activity in stumps. Annals of Botany NS 15(57): 1–21.

Rishbeth, J. 1959. Dispersal of *Fomes annosus* (Fr.) and *Peniophora gigantea* (Fr.) Massee. Transactions of the British Mycological Society 42: 243–260.

Rishbeth, J. 1972. The production of rhizomorphs by *Armillaria mellea* from stumps. European Journal of Forest Pathology 2: 193–205.

Roane, M.K.; Griffin, C.J.; Elkins, J.R. 1986. Chestnut blight, other *Endothia* diseases, and the genus *Endothia*. St. Paul, MN: American Phytopathological Society Press. 53 p.

Robbins, K. 1984. Annosus root rot in eastern conifers. Forest Insect and Disease Leaflet 76. Washington, DC: U.S. Department of Agriculture, Forest Service. 10 p.

Rosnev, B. 1982. Initial infection and spread of *Fomes annosus* (*Heterobasidion annosum*) in Scots pine. Gorskokostopanska Nauka 23: 74–82. (In Bulgarian; English summary).

Rossnev, B.; Petkov, P.; Georgiev, D.; Rosnev, B. 1994. Importance and character of the tracheomycotic disease in the oak forests of Bulgaria. Nauka za Gorata 31: 49–54.

Rozema, J.; van de Staaij, J.; Bjorn, L.O.; Caldwell, M. 1997. UV–B as an environmental factor in plant life: stress and regulation. Trends in Ecology and Evolution (TREE) 12: 22–27.

Rozhkov, A.S., ed. 1966. Vrediteli listvennitsy sibirskoi. [Pests of Siberian larch.] Akademiya Nauk SSSR, Sibirskoe otdelenie. Vostochno-Sibirskii Biologicheskii Institute. [Academy of Sciences of the USSR, Siberian Department. East-Siberian Biological Institute.] (English Version, 1970.) 393 p. (See p. 58).

Runkle, J.R. 2000. Canopy tree turnover in old-growth mesic forests of eastern North America. Ecology 81: 554–567.

Rutherford, T.A.; Mamiya, Y.; Webster, J.M. 1990. Nematode-induced pine wilt disease: factors influencing its occurrence and distribution. Forest Science 36: 145–155.

Rutherford, T.A.; Webster, J.M. 1987. Distribution of pine wilt disease with respect to temperature in North America, Japan, and Europe. Canadian Journal of Forest Research 17: 1050–1059.

- Ryan, R.B. 1987. Classical biological control: An overview. *Journal of Forestry* 85: 29–31.
- Ryan, R.B.; Tunnock, S.; Ebel, F.W. 1987. The larch casebearer in North America. *Journal of Forestry* 85: 33–39.
- Ryvarden, L.; Gilbertson, R.L. 1994. European Polypores. Vols. I and II. Oslo: Fungiflora. 743 p.
- Ryvarden, L.; Johansen, I. 1980. A preliminary polypore flora of East Africa. Oslo: Fungiflora. 636 p.
- Sadof, C.S.; Waltz, R.D.; Kellam, C.D. 1994. Differential shoot feeding by adult *Tomicus piniperda* (Coleoptera: Scolytidae) in mixed stands of native and introduced pines in Indiana. *The Great Lakes Entomologist* 27: 223–228.
- Schaefer, P.W. 1989. Diversity in form, function, behavior and ecology: An overview of the Lymantriidae (Lepidoptera) of the world. In: Wallner, W.E.; McManus, K.A., tech. coords. *Proceedings: Lymantriidae: a comparison of features of New and Old World tussock moths; 26 June–1 July 1988; New Haven CT. General Technical Report NE-123*. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station: 1–19.
- Schedl, K.E. 1981. Familie: Scolytidae (borken- und ambrosiakäfer) (Ipidae). [Family: Scolytidae (bark and ambrosia beetles) (Ipidae).] In: Freude, H.; Harde, K.W.; Lohse, G.A., eds. *Die Käfer Mitteleuropas*, Vol. 10. Krefeld, Germany: Goecke & Evers: 34–101.
- Scheffrahn, R.H.; Su, N. 1995. A new subterranean termite introduced to Florida: *Heterotermes* Froggatt (Rhinotermitidae: Heterotermitinae) established in Miami. *Florida Entomologist* 78: 623–627.
- Schmitt, C.L.; Parmeter, J.R., Jr.; Kliejunas, J.T. (draft). Annosus root disease of western conifers. Forest Pest Leaflet. Washington, DC: U.S. Department of Agriculture, Forest Service.
- Schmutzenhofer, H.; Mielke, E.; Luo, Y.; Ostry, M.E.; Wen, J. 1997. Field guide/manual on the identification and management of poplar pests and diseases in the area of the “Three North 009 Project” (North-Eastern China). Food and Agriculture Organization of the United Nations. Beijing: China Forestry Publishing House.
- Schönherr, V.J.; Pedrosa-Macedo, J.H. 1981. Scolytoidea in den aufforstungen Brasiliens: Ein Beitrag zur Kenntnis der borkenkäfer Sudamerikas. [Scolytidae in the afforestations of Brazil: a contribution to the knowledge of the South American bark beetles.] *Zeitschrift für angewandte Entomologie [Journal of Applied Entomology]* 92: 48–61.
- Schopf, R.; Stramm, J.; Doganlar, M. 1984. On the possible transmission of the oak wilt fungus (*Ceratocystis fagacearum*) by insects in the northern part of Germany. *Forstarchiv* 55: 103–106. (In German; English abstract).
- Schroeder, L.M. 1990. Occurrence of insects in coniferous roundwood imported to Sweden from France and Chile. EPPO (European and Mediterranean Plant Protection Organization) Bulletin 20: 591–596.
- Schroers, H.J.; Samuels, G.J.; Seifert, K.A.; Gams, W. 1999. Classification of the mycoparasite *Gliocladium roseum* in *Clonostachys* as *C. rosea*, its relationship to *Bionectria ochroleuca*, and notes on the other *Gliocladium*-like fungi. *Mycologia* 91: 365–385.
- Schuh, R.T.; Slater, J.A. 1995. True bugs of the world (Hemiptera: Heteroptera): classification and natural history. Ithaca, New York: Comstock Publishing Associates. 336 p.
- Schwenke, W. 1974. Die Forstsäädlinge Europas. [Forest pests of Europe.] Vol. 2., Käfer. Hamburg and Berlin: Paul Parey. 500 p. (See pp. 381–389).

- Schwerdtfeger, F. 1957. Die Waldkrankheiten {The forest diseases], 2nd edition. Hamburg: Paul Parey.
- Seattle Port Authority. "The Seattle Harbor. Cargo. Container terminals." (no publication date). <http://www.portseattle.org/harbor/cargos/conterm/conterm.html> (17 March 1999).
- Seifert, K.A.; Okada, G. 1993. *Graphium* anamorphs of *Ophiostoma* species and similar anamorphs of other Ascomycetes. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. *Ceratocystis* and *Ophiostoma*: taxonomy, ecology and pathogenicity. St. Paul, MN: American Phytopathological Society Press: 27–41.
- Serrao-Nogueira, C.D. 1976. O problem fitossanitario dos pinhais do Estoril. [The phytosanitary problem with pines in Estoril.] Anais do Instituto Superior de Agronomia 36: 203–240.
- Seth, S.K.; Bakshi, B.K; Reddy, M.A.R.; Singh, S. 1978. Pink disease of eucalyptus in India. European Journal of Forest Pathology 8: 200–216.
- Sharma, J.R. 1995. Hymenochaetaceae of India. Botanical survey of India. Dehra Dun. 219 p.
- Shaw, C.G., III. 1975. Epidemiological insights into *Armillaria mellea* root rot in a managed ponderosa pine forest. Corvallis, OR: Oregon State University. Ph.D. Dissertation. 201 p.
- Shaw, C.G., III. 1981. Basidiospores of *Armillaria mellea* survive an Alaskan winter on tree bark. Plant Disease 65: 972–974.
- Shibata, E. 1994. Population studies of *Callidiellum rufipenne* (Coleoptera: Cerambycidae) on Japanese cedar logs. Annals of the Entomological Society of America 87: 836–841.
- Shibata, E. "Re: New exotic in the US." Personal e-mail to R. Haack (14 March 1998).
- Siitonens, J. 1990. Potential forest pests conveyed to Finland on timber from the Soviet Union. Silva Fennica 24: 315–321.
- Sinclair, W.A.; Campana, R.J. 1978. Dutch elm disease: Perspectives after 60 years. Search (Agriculture, Plant Pathology 1) 8 (5): 1–52.
- Sinclair, W.A.; Lyon, H.H.; Johnson, W.T. 1987. Diseases of trees and shrubs. Ithaca, NY: Comstock Publishing Associates, Cornell University Press. 574 p.
- Six, D.L.; Paine, T.D. 1997. *Ophiostoma clavigerum* is the mycangial fungus of the Jeffrey pine beetle, *Dendroctonus jeffreyi*. Mycologia 89: 858–866.
- Sliwa, V.E.; Sierpinska, Z. 1986. Gradation der nonne (*Lymantria monacha* L.) in Polen von 1978 bis 1984. [Outbreak of nun moth (*Lymantria monacha* L.) in Poland between 1978 and 1984.] Anzeiger für Schädlingskunde Pflanzenschutz Umweltschutz 59: 81–86.
- Smalley, E.B. 1984. Elms and Dutch elm disease in China. The Wisconsin Arborist 3: 104.
- Smalley, E.B. 1994. Hickory dying in Wisconsin associated with attack by *Scolytus quadrispinosus* and an undescribed *Ceratocystis* spp. Phytopathology. 84: 1122.
- Smalley, E. B.; Caldwell, R.P. 1994. Determination of mold contamination sources in food products at the Masterson Company Inc., Milwaukee, WI. Final Consultant Report. 5 p.

- Smalley, E.B.; Guries, R.P. 1993. Breeding elms for resistance to Dutch elm disease. Annual Review of Phytopathology 31: 325–352.
- Smith, D.M. 1995. Chapter 1: The forests of the United States. In: Barrett, J.W., ed. 1995. Regional silviculture of the United States, 3rd Edition. New York: John Wiley & Sons, Inc.: 1–30.
- Smith, M.L.; Bruhn, J.N.; Anderson, J.B. 1992. The fungus *Armillaria bulbosa* is among the largest and oldest living organisms. Nature 356: 428–431.
- Smitinand, T. 1980. Thai plant names (botanical names—vernacular names). Bangkok, Thailand: Royal Forest Department. 379 p.
- Solheim, H.; Krokene, P. 1998. Growth and virulence of mountain pine beetle associated blue-stain fungi, *Ophiostoma clavigerum* and *Ophiostoma montium*. Canadian Journal of Botany 76: 561–566.
- Solheim, H.; Långström, B. 1991. Blue-stain fungi associated with *Tomicus piniperda* in Sweden and preliminary observations on their pathogenicity. Annales des Sciences Forestieres 48: 149–156.
- Solheim, H.; Safranyik, L. 1997. Pathogenicity to Sitka spruce of *Ceratocystis rufipenni* and *Leptographium abietinum*, blue-stain fungi associated with the spruce beetle. Canadian Journal of Forestry Research 27: 1336–1341.
- Solomon, J.D. 1995. Guide to insect borers of North American broadleaf trees and shrubs. Agricultural Handbook 706. Washington, DC: U.S. Department of Agriculture, Forest Service. 735 p.
- Southwood, T.R.E.; Leston, D. 1959. Land and water bugs of the British Isles. London: Warne and Co., Ltd. 436 p.
- Spencer, L.; Campagna, D. 1998. Mission: crush Asian longhorns and quash collectors. Chicago, IL: Chicago Tribune (26 July 1998).
- Spradberry, J.P.; Kirk, A.A. 1978. Aspects of the ecology of siricid woodwasps (Hymenoptera: Siricidae) in Europe, North Africa and Turkey with special reference to the biological control of *Sirex noctilio* F. in Australia. Bulletin of Entomological Research 68: 341–359.
- Spurr, S.H.; Barnes, B.V. 1973. Forest Ecology, 2nd Edition. Chapter 19: Forests of the world. New York: The Ronald Press Company: 494–522.
- Srutka, P. 1996. Transmission of fungus spores by bark beetles of the genus *Scolytus* with respect to the oak bark beetle (*Scolytus intricatus* Ratz.). Lesnictvi Forestry 42: 510–517.
- Stadler, B.; Muller, T. 1966. Aphid honeydew and its effects on the phyllosphere microflora of *Picea abies* (L.) Karst. Oecologia 108: 771–776.
- Strawinski, K. 1925. Histořja naturalna korowca sosnowego *Aradus cinnamomeus* Panz. (Hemiptera: Heteroptera). [Natural history of the pine bark bug *Aradus cinnamomeus* Panz. (Hemiptera: Heteroptera).] Roczn. Nauk. Rolniczych i Lesnych 14: 644–693.
- Strydom, R.C.; Wingfield, B.D.; Wingfield, M.J. 1997. Ribosomal DNA sequence comparison of *Leptographium lundbergii* and *L. truncatum* and neotypification of *L. lundbergii*. Systematic and Applied Microbiology 20: 295–300.

- Su, N.-Y.; Scheffrahn, R.H. 1988. The Formosan subterranean termite. Pest Management 7: 16–25.
- Su, N.; Scheffrahn, R.H. 1990. Economically important termites in the United States and their control. Sociobiology 17: 77–94.
- Su, N.; Scheffrahn, R.H. 1998a. *Coptotermes vastator* Light (Isoptera: Rhinotermitidae) in Guam. Proceedings of the Hawaiian Entomological Society 33: 13–18.
- Su, N.; Scheffrahn, R.H. 1998b. A review of subterranean termite control practices and prospects for integrated pest management programmes. Integrated Pest Management Reviews 3: 1–13.
- Su, N.-Y.; Scheffrahn, R.H. 2000. “Formosan subterranean termite.” *Featured Creatures*. [http://www.ifas.ufl.edu/~insect/urban/termites/formosan\\_termite.htm](http://www.ifas.ufl.edu/~insect/urban/termites/formosan_termite.htm) (February 2000).
- Su, N.; Scheffrahn, R.H.; Weissling, T. 1997. A new introduction of a subterranean termite, *Coptotermes havilandi* Holmgren (Isoptera: Rhinotermitidae), in Miami, Florida. Florida Entomologist 80: 408–411.
- Subramaniam, S.V.; Ramaswamy, V. 1987. Histopathological observations on pink disease of eucalyptus. Current Science 56: 1042–1044.
- Suggs, E. “Notes from teleconference.” Personal e-mail to P. Douglass (28 October 1998).
- Sun, F.X.W.; Zhang, Y.; Gao, R. 1997. Preliminary study on effect of INA bacteria to kill larva of *Anoplophora glabripennis* through freezing-induction. Forest Research 10: 96–99.
- Sun, J.Z.; Zhao, Z.Y.; Ru, T.Q.; Qian, Z.G.; Song, X.J. 1990. Control of *Anoplophora glabripennis* by using cultural methods. Forest Pest and Disease. No. 2: 10–12.
- Sun, X. 1989. Lymantriid forest pests in China. In: Wallner, W.E.; McManus, K.A., tech. coords. Proceedings: Lymantriidae: a comparison of features of New and Old World tussock moths; 26 June–1 July 1988; New Haven CT. General Technical Report NE-123. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station: 51–64.
- Swank, W.T.; Waide, J.B.; Crossley, D.A.; Todd, R.L. 1981. Insect defoliation enhances nitrate export from forest ecosystems. Oecologia 51: 297–299.
- Swanson, F.J.; Clayton, J.L.; Megahan, W.F.; Bush, G. 1989. Erosional processes and long-term site productivity. In: Perry, D.A.; Meurisse, R.; Thomas, B.; Miller, R.; Boyle, J.; Means, J.; Perry, C.R.; Powers, R.F., eds. Maintaining the long-term productivity of Pacific Northwest forest ecosystems. Portland, OR: Timber Press: 67–81.
- Swedjemark, G.; Stenlid, J. 1993. Population dynamics of the root rot fungus *Heterobasidion annosum* following thinning of *Picea abies*. Oikos 66: 247–254.
- Szontagh, P. 1984. Population dynamics of macrolepidoptera injurious to oak and the sequence of damage caused by secondary pests. Erdeszeti Kutatasok 76: 305–314.
- Szontagh, P. 1985. The role of phytophagous insects in the decay of sessile oak. Novenyvedelem 21: 219.
- Tainter, F.H.; Baker, F.A. 1996. Principles of forest pathology. New York: John Wiley and Sons, Inc. 805 p.
- Talbot, P.H.B. 1964. Taxonomy of the fungus associated with *Sirex noctilio*. Australian Journal of Botany 12:

- Talbot, P.H.B. 1977. The *Sirex-Amylostereum-Pinus* association. Annual Review of Phytopathology 15: 41–54.
- Tamashiro, M. 1984. The Formosan subterranean termite. St. Louis, MO: Whitmire Institute of Technology and Advanced Pest Management. 4 pp.
- Tanada, Y. 1959. Microbial control of insect pests. Annual Review of Entomology 4: 277–295.
- Taylor, K.L. 1978. Evaluation of the insect parasitoids of *Sirex noctilio* (Hymenoptera: Siricidae) in Tasmania. Oecologica (Berlin) 32: 1–10.
- Taylor, K.L. 1981. The sirex woodwasp: ecology and control of an introduced forest insect. In: The ecology of pests—some Australian case histories. Kitching, R.L.; Jones, R.E., eds. Melbourne: CSIRO: 231–248.
- Taylor, R.A.; Reling, D. 1986. Density/height profile and long-range dispersal of first-instar gypsy moth (Lepidoptera: Lymantriidae). Environmental Entomology 15: 431–435.
- Thier, R.W. 1997. U.S. Department of Agriculture, Forest Service, Boise, Idaho, letter, 29 May 1997, describing information from personal communication with Zhou Jian Sheng, Director of Anhui Province Forest Biological Control Center, China. 2 p.
- Thorne, B.L. 1998. Biology of subterranean termites of the genus *Reticulitermes*. NPCA research report on subterranean termites. Dunn Loring, VA: National Pest Control Association: 1–30.
- Thrower, L.B. 1965. Parasitism of cacao by *Fomes noxioides* in Papua–New Guinea. Tropical Agriculture, Trinidad. 42: 63–67.
- Tilman, D. 1999. The ecological consequences of changes in biodiversity: a search for general principles. Ecology 80: 1455–1474.
- Tims, E.C. 1963. *Corticium salmonicolor* in the United States. Plant Disease Reporter 47: 1055–1059.
- Tkacz, B.M.; Burdsall, H.H., Jr.; DeNitto, G.A.; Eglitis, A.; Hanson, J.B.; Kliejunas, J.T.; Wallner, W.E.; O'Brien, J.G.; Smith, E.L. 1998. Pest risk assessment of the importation into the United States of unprocessed *Pinus* and *Abies* logs from Mexico. General Technical Report FPL-GTR-104. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory. 116 p.
- Torgersen, T.R.; Mason, R.R.; Campbell, R.W. 1990. Predation by birds and ants on two forest insect pests in the Pacific Northwest. Studies in Avian Biology 13: 14–19.
- Tribe, G.D. 1990. Phenology of *Pinus radiata* log colonization and reproduction by the European bark beetle *Orthotomicus erosus* (Wollaston) (Coleoptera: Scolytidae) in the south-western Cape Province. Journal of the Entomological Society of Southern Africa 53: 117–126.
- Tribe, G.D. 1991a. Phenology of *Pinus radiata* log colonization by the red-haired pine bark beetle *Hylurgus ligniperda* (Fabricius) (Coleoptera: Scolytidae) in the south-western Cape Province. Journal of the Entomological Society of South Africa 54: 1–7.
- Tribe, G.D. 1991b. Phenology of three exotic pine bark beetles (Coleoptera: Scolytidae) colonizing *Pinus radiata* logs in the south-western Cape Province. South African Forestry Journal 157: 27–31.

- Tribe, G.D. 1992. Colonisation sites on *Pinus radiata* logs of the bark beetles *Orthotomicus erosus*, *Hylastes angustatus* and *Hylurgus ligniperda* (Coleoptera: Scolytidae). Journal of the Entomological Society of Southern Africa 55: 77–84.
- Tropin, I.V. 1951. The food plants and morphological characteristics of the pine bug, *Aradus cinnamoneus* Panz. (Hemiptera, Aradidae). Entomologicheskoe Obozrenie 31: 349–360 (in Russian).
- Tyrrell, M. 1996. The invasion of Brooklyn, New York by *Anoplophora glabripennis*: an ecological risk assessment. Yale University School of Forestry and Environmental Studies. Unpublished report. 33 p.
- Uchida, J.Y.; Aragaki, M. 1979. Ceratocystis blight of *Syngonium podophyllum*. Plant Disease Reporter 63: 1053–1056.
- Upadhyay, H.P. 1981. A monograph of *Ceratocystis* and *Ceratocystiopsis*. Athens: University of Georgia Press. 176 p.
- U.S. Bureau of Census, Foreign Trade Division. “Exhibit 6E. Exports and general imports by country and area, not seasonally adjusted: 1991 final report.” (no publication date, a). [http://www.census.gov/foreign-trade/Press-Release/91\\_press\\_releases/Final\\_Revisions\\_1991/ft900\\_91.txt](http://www.census.gov/foreign-trade/Press-Release/91_press_releases/Final_Revisions_1991/ft900_91.txt) (10 Aug. 1999).
- U.S. Bureau of Census, Foreign Trade Division. “Exhibit 1. Merchandise Trade: Imports by Related/Nonrelated Party Trade by Selected Countries and World Areas—1998.” (no publication date, b). [http://www.census.gov/foreign-trade/Press-Release/98\\_press\\_releases/aip/rp98-exh-1.txt](http://www.census.gov/foreign-trade/Press-Release/98_press_releases/aip/rp98-exh-1.txt) (10 Aug. 1999).
- U.S. Congress, Office of Technology Assessment. 1993. Harmful Non-indigenous Species in the United States. OTA-F-565. Washington, DC: U.S. Government Printing Office. 391 p.
- U.S. Office of Management and Budget. 1996. “Economic Analysis of Federal Regulations Under Executive Order 12866.” <http://www.whitehouse.gov/OMB/infoeg/riaguide.html> (29 Sept. 1999).
- USDA. 1972. Insects not known to occur in the United States: a bark beetle (*Tomicus piniperda* (Linnaeus)). No. 191 in Series. U.S. Department of Agriculture, Cooperative Economic Insect Report 22(16): 234–236.
- USDA, APHIS. 1994. Importation of logs, lumber, and other unmanufactured wood articles: environmental impact statement, July 1994. Hyattsville, MD: U.S. Department of Agriculture, Animal and Plant Health Inspection Service. 86 p. + appendixes.
- USDA, APHIS. NPAG data: *Paleocallidium rufipenne*, small borer of *Cryptomeria*. Unpublished report, 3 March 1998. 12 p.
- USDA, APHIS. *Callidiellum* sp. (probably *rufipenne*) infesting Arborvitae, *Thuja occidentalis*. New pest situation report No. 1—Connecticut. Unpublished report, 7 October 1998. 3 p.
- USDA, APHIS. Coleoptera: Cerambycidae, *Callidiellum rufipenne* infesting Arborvitae, *Thuja occidentalis*. New pest situation report No. 2—Connecticut. Unpublished report, 17 November 1998. In: Douglass, P. “Background info for NPAG conference call on 11/19 on *Callidiellum rufipenne*.” Personal e-mail (18 Nov. 1998).
- USDA, APHIS. 1998. “Solid wood packing material from China—initial pest risk assessment on certain wood boring beetles known to be associated with cargo shipments: Asian longhorned beetle (*Anoplophora glabripennis*), *Ceresium*, *Monochamus*, and *Hesperophanes*.” [http://www.aphis.usda.gov/ppq/ss/Interim\\_rule\\_PRA.htm](http://www.aphis.usda.gov/ppq/ss/Interim_rule_PRA.htm)

USDA, APHIS. 1999. Proposed rules: importation of unmanufactured wood articles; solid wood packing material. Docket No. 98-057-1. Federal Register 64: 3049–3052.

USDA, APHIS. “Introductions and Warehouse Detections of Longhorn Beetles from Cargo Originating in China.” (no publication date). <http://www.aphis.usda.gov/oa/alb/albmap.html> (2 June 1999).

USDA, APHIS, PPQ Agricultural Quarantine Inspection Monitoring (AQIM) data base. Riverdale, MD.

USDA, APHIS, PPQ Port Information Network (PIN) pest interception 309 (PIN-309) data base. Riverdale, MD.

USDA, Economic Research Service. 1999a. “Floriculture and Environmental Horticulture—ERS Briefing Room.” <http://www.econ.ag.gov:80/briefing/floral/> (28 March 2000).

USDA, Economic Research Service. 1999b. Floriculture and Environmental Horticulture Situation and Outlook Report. FLO-1999. Springfield, VA: U.S. Department of Agriculture, Economic Research Service, Market and Trade Economics Division. 107 p. (Available at <http://www.econ.ag.gov/>).

USDA, Forest Service. 1991. Pest risk assessment of the importation of larch from Siberia and the Soviet Far East. Miscellaneous Publication 1495. Washington, DC: U.S. Department of Agriculture, Forest Service. 260 p.

USDA, Forest Service. 1992. Pest risk assessment of the importation of *Pinus radiata* and Douglas-fir logs from New Zealand. Miscellaneous Publication 1508. Washington, DC: U.S. Department of Agriculture, Forest Service.

USDA, Forest Service. 1993a. Forest resources of the United States, 1992. General Technical Report RM-234 (Revised). Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station. 132 p.

USDA, Forest Service. 1993b. Pest risk assessment of the importation of *Pinus radiata*, *Nothofagus dombeyi*, and *Laurelia philippiana* logs from Chile. Miscellaneous Publication 1517. Washington, DC: U.S. Department of Agriculture, Forest Service. 248 p.

USDA, Forest Service. “Gypsy moth defoliation by year.” (no publication date). *Search GMDigest Defoliation Data by Year*. <http://fhpr8.srs.fs.fed.us/wv/gmdigest/defyrl1.cfm> (13 Apr. 1999).

USDA, Forest Service and Animal and Plant Health Inspection Service. 1995. Gypsy moth management in the United States: a cooperative approach. Final Environmental Impact Statement. Washington, DC: U.S. Department of Agriculture, Forest Service.

USDA, National Agricultural Statistics Service. “Statistical Highlights 1997–98.” (no publication date). <http://www.usda.gov:80/nass/pubs/stathigh/1998/nass1.htm> (28 March 2000).

Usinger, R.L.; Matsuda, R. 1959. Classification of the Aradidae (Hemiptera–Heteroptera). London: British Museum, Natural History. 410 p.

van Arsdel, E.P.; Riker, A.J.; Patton, R.F. 1956. Effects of temperature and moisture on the spread of white pine blister rust. *Phytopathology* 46: 307–308.

Vité, J.P.; Bakke, A.; Renwick, J.A.A. 1972. Pheromones in *Ips* (Coleoptera: Scolytidae): occurrence and production. *The Canadian Entomologist* 104: 1967–1975.

Vitousek, P.M.; Mooney, H.A.; Lubchenco, J.; Melillo, J.M. 1997. Human domination of the earth's ecosystems.

Science 277: 494–499.

Volk, T.J.; Burdsall, H.H., Jr. 1995. A nomenclatural study of *Armillaria* and *Armillariella*. Synopsis Fungorum 8: 1–121.

Wallenmaier, T.E. 1982. A pest risk assessment of wood-boring insects associated with wood products moving in international commerce. U.S. Department of Agriculture, Animal and Plant Health Inspection Service. 20 p.

Wallner, W.E. 1996a. Invasive pests (biological pollutants) and U.S. forests: whose problem, who pays? Bulletin EPPO 26: 167–180.

Wallner, W.E. 1996b. Invasion of the tree snatchers. American Nurseryman, March: 28–30.

Wallner, W.E. 1997. Global gypsy—the moth that gets around. In Britton, K.O., ed. Proceedings: exotic pests of eastern forests; Nashville, TN: 63–76.

Wallner, W.E. 1999. Invasive pests: threats to forest biodiversity, management, and commerce, p. 59. In: Proceedings, forty-ninth annual western forest insect work conference; 2–5 March 1998; Jackson, WY. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest Experiment Station.

Wallner, W.E.; DeVito, A.S.; Zarnoch, S.J. 1989. Regression estimators for late instar gypsy moth larvae at low population densities. Forest Science 35: 789–800.

Wallner, W.E.; Humble, L.M.; Levin, R.E.; Baranchikov, Y.N.; Cardé, R.C. 1995. Response of adult Lymantriid moths to illumination devices in the Russian Far East. Journal of Economic Entomology 88: 337–342.

Walter, J.M.; Rex, E.G.; Schreiber, R. 1952. The rate of progress and destructiveness of canker stain of planetrees. Phytopathology 42: 236–239.

Wang, Q. 1998. Evidence for a contact female sex pheromone in *Anoplophora chinensis* (Forster) (Coleoptera: Cerambycidae: Lamiinae). The Coleopterists Bulletin 52: 363–368.

Wargo, P.M. 1984. How stress predisposes trees to attack by *Armillaria mellea*—a hypothesis. In: Proceedings of the Sixth International Conference on Root and Butt Rot of Forest Trees. Melbourne: CSIRO: 115–121.

Wargo, P.M.; Haack, R.A. 1991. Understanding the physiology of dieback and diseases and its management implications for oak. In: Proceedings: the oak resource in the Upper Midwest: implications for management; 3–6 June 1991; Winona, MN: Minnesota Extension Service, University of Minnesota NR-BU-5663-S: 147–158.

Webb, J.R.; Cosby, B.J.; Deviney, F.A.; Eshleman, K.N.; Galloway, J.N. 1995. Change in the acid–base status of an Appalachian catchment following forest defoliation by the gypsy moth. Water, Air, and Soil Pollution 85: 535–540.

Wellman, F.L. 1972. Tropical American plant disease. Metuchen, NJ: The Scarecrow Press, Inc.: 315–320.

Wilcove, D.S. 1985. Nest predation in forest tracts and the decline of migratory songbirds. Ecology 66: 1211–1214.

Wingfield, M.J. 1993. *Leptographium* species as anamorphs of *Ophiostoma*: Progress in establishing acceptable generic and species concepts. In: Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. *Ceratocystis* and *Ophiostoma*; taxonomy, ecology and pathogenicity. St. Paul, MN: American Phytopathological Society Press: 43–51.

Wingfield, M.J.; Blanchette, R.A.; Nicholls, T.H. 1984. Is the pine wood nematode an important pathogen in the

United States? Journal of Forestry 82: 232–235.

Wingfield, M.J.; Capretti, P.; MacKenzie, M. 1988. *Leptographium* spp. as root pathogens of conifers, an international perspective. In: Cobb, F.W.; Harrington, T.C., Jr., eds. *Leptographium* root diseases of conifers. St. Paul, MN: American Phytopathological Society Press: 113–128.

Wingfield, M.J.; Gibbs, J.N. 1991. *Leptographium* and *Graphium* species associated with pine-infesting bark beetles in England. Mycological Research 95: 1257–1260.

Wingfield, M.J.; Marasas, W.F.O. 1980. *Ceratocystis ips* associated with *Orthotomicus erosus* (Coleoptera: Scolytidae) on *Pinus* spp. in the Cape Province of South Africa. Phytophylactica 12: 65–69.

Wingfield, M.J.; Marasas, W.F.O. 1983. Some *Verticicladiella* species, including *V. truncata* sp. nov., associated with root diseases of pine in New Zealand and South Africa. Transactions of the British Mycology Society 80: 231–236.

Wingfield, M.J.; Seifert, K.A.; Webber, J.F., eds. 1993. *Ceratocystis* and *Ophiostoma*: taxonomy, ecology and pathogenicity. St. Paul, MN: American Phytopathological Society Press. 293 p.

Wingfield, M.J.; Strauss, L.A.; Tribe, G.D. 1985. Fungi associated with three pine bark beetles in South Africa. (Abstract No. 476). Phytopathology 75: 1338.

Witter, J.A.; Stoyenoff, J.L. 1992. Impacts of the gypsy moth in Michigan. Michigan Academician 25: 67–90.

Witthuhn, R.C.; Wingfield, B.D.; Wingfield, M.J.; Wolfaardt, M.; Harrington, T.C. 1998. Monophyly of the conifer species in the *Ceratocystis coeruleascens* complex based on DNA sequence data. Mycologia 90: 96–100.

Witthuhn, R.C.; Wingfield, B.D.; Wingfield, M.J.; Harrington, T.C. 1999. PCR-based identification and phylogeny of species of *Ceratocystis* sensu stricto. Mycological Research 103: 743–749.

Wood, S.L. 1982. The bark and ambrosia beetles of North and Central America (Coleoptera: Scolytidae), a taxonomic monograph. Great Basin Naturalist Memoirs 6. Provo, UT: Brigham Young University. 1359 p.

Wood, S.L.; Bright, D.E., Jr. 1992. A catalog of Scolytidae and Platypodidae (Coleoptera), Part 2: Taxonomic index. Great Basin Naturalist Memoirs 13. Provo, UT: Brigham Young University. 1553 p.

Worrell, R. 1983. Damage by the spruce bark beetle in South Norway, 1970–1980: A survey and factors affecting its occurrence. Meddelelser fra Norsk Institutt for Skogforskning 38(6): 1–34.

Woudenberg, S.W.; Farrenkopf, T.O. 1995. The westwide forest inventory data base: user's manual. General Technical Report INT-GTR-317. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station. 67 p.

Wright, J.W. 1955. Species crossability in spruce in relation to distribution and taxonomy. Forest Science 1: 319–349.

WTO. "Agreement on the Application of Sanitary and Phytosanitary Measures." (no publication date). <http://www.wto.org/wto/goods/spsagr.htm> (2 Dec. 1998). World Trade Organization.

Xiao, G., ed. 1980. Forest insects of China. Beijing, China: Forest Research Institute, Chinese Academy of Forestry. 1107 p.

- Yamaoka, Y.; Wingfield, M.J.; Takahashi, I.; Solheim, H. 1997. Ophiostomatoid fungi associated with the spruce bark beetle *Ips typographus* f. *japonicus* in Japan. Mycological Research 101: 1215–1227.
- Yamashiro, T.; Myazaki, I. 1985. Principais pragas e doenças da mangueira—*Mangifera indica* L.—no estado de São Paulo e métodos atualizados de controle. [Principal pests and diseases of mango—*Mangifera indica* L.—in the State of São Paulo and current methods of control.] Biológico 51: 41–50.
- Yan, J.J. 1985. Research on distribution of basicosta whitespotted longicorn in east China. Journal of North Eastern Forestry College, China. 13: 62–69.
- Yang, B.; Wang, Q. 1989. Distribution of the pinewood nematode in China and susceptibility of some Chinese and exotic pines to the nematode. Canadian Journal of Forest Research 19: 1527–1530.
- Yang, P.H.; Hu, Z.L.; Zhao, Z.L. 1988. A preliminary observation on the bionomics of *Scolytus schevyrewi* Semenov. Shaanxi Forest Science and Technology 1988: 38–41. (In Chinese).
- Yang, X.; Zhou, J.; Wang, F.; Cui, M. 1995. A study on the feeding habits of the larvae of two species of longicorn (*Anoplophora*) to different tree species. Journal of Northwest Forestry College 10(2): 1–6.
- Yano, M. 1913. Investigations on the cause of pine mortality in Nagasaki Prefecture. Sanrin-Koho 4 (supplement): 1–14.
- Yates, J.R. III; Grace, J.K.; Tamashiro, M. 1999. New technology for managing the Formosan subterranean termite. HSP-3. Honolulu, HI: College of Tropical Agriculture and Human Resources, University of Hawaii. 4 p.
- Yates, J.R., III; Tamashiro, M. 1999. The Formosan subterranean termite in Hawaii. HSP-2. Honolulu, HI: College of Tropical Agriculture and Human Resources, University of Hawaii. 4 p.
- Yates, M.G. 1981. The subcortical fauna of oak; scolytid beetles as potential vectors of oak wilt disease. In: Last, F.T.; Gardiner, A.S., eds. Forest and Woodland Ecology. ITE Symposium 8. Cambridge, United Kingdom: Institute of Terrestrial Ecology: 116–117.
- Yates, M.G. 1984. The biology of the oak bark beetle, *Scolytus intricatus* (Ratzeburg) (Coleoptera: Scolytidae), in southern England. Bulletin of Entomological Research 74: 569–579.
- Ye, Y.H. 1991. On the bionomy of *Tomicus piniperda* (L.) (Col., Scolytidae) in the Kunming region of China. Journal of Applied Entomology 112: 366–369.
- Yi, C.; Park, J.; Chang K. 1989. Occurrence of pine wood nematode, *Bursaphelenchus xylophilus* (Steiner et Buhrer) Nickle, and its vector, *Monochamus alternatus* Hope, in Korea. In: Proceedings IUFRO regulatory workshop on forest insect pests and tree diseases in NE Asia, Tsukuba, Japan. Forest Products Research Institute: 183–193.
- Zach, P. 1994. Phloeo- and xylophagous beetles (Coleoptera) in oak trap trees on a forest-steppe site. Lesnický Casopis 40: 249–257.
- Zanuncio, J.C. 1976. Efeito do controle químico e microbiológico sobre três pragas de eucalipto e outros insetos. [The effect of chemical and microbiological control of three pests of eucalyptus and other insects.] ESALQ/USP, Piracicaba. 76 p. (Tese M.S.).
- Zanuncio, J.C.; de Lima, J.O.G. 1975. Ocorrências de *Sarsina violascens* (Herrich-Schaeffer, 1856) (Lepidoptera:

Lymantriidae) em eucalipto de Minas Gerais. [Occurrences of *Sarsina violascens* (Herrick-Schaeffer, 1856) (Lepidoptera: Lymantriidae) in eucalyptus from Minas Gerais.] Brasil Florestal 6(23): 48–50.

Zanuncio, J.C.; do Nascimento, E.C.; Garcia, J.F.; Zanuncio, T.V. 1994. Major lepidopterous defoliators of eucalypt in southeast Brazil. Forest Ecology and Management 65: 53–63.

Zanuncio, T.V.; do Nascimento, E.C.; Zanuncio, J.C.; Lobo, P.R.R. 1995. Lepidoptera associated with *Eucalyptus grandis* Hill ex Maiden in Correntina, Bahia. Anais da Sociedade Entomologica do Brasil 24(3): 639–643.

Zanuncio, J.C.; Fagundes, M.; Zanuncio, T.V.; Medeiros, A.G. de B. 1992. Principais lepidópteros, pragas primárias e secundárias, de *Eucalyptus grandis* na região de Guanhaes, Minas Gerais, durante o período de junho de 1989 a maio 1990. [Principal lepidopterans, primary and secondary pests of *Eucalyptus grandis* in the region of Guanhaes, Minas Gerais, during the period of June 1989 to May 1990.] Científica, São Paulo 20: 145–155.

Zanuncio, J.C.; Santana, D.L.Q.; Nascimento, E.C. do; (and others). (n.d.) Lepidoptera desfolhadores de eucalipto, biologia, ecologia e controle. [Lepidoptera defoliators of eucalyptus, biology, ecology and control.] Manual de Pragas em Florestas, Vol. 1. 140 p.

Zanuncio, J.C.; Santana, D.L.O.; Santos, G.P.; Sartorio, R.C. 1991. Levantamento e flutuação populacional de lepidópteros associados a eucaliptocultura: II—Região do Alto São Francisco, MG. [Increases and population fluctuations of lepidopterans associated with eucalypt cultivation: II—Region of Alto San Francisco, MG.] Anais da Sociedade Entomologica do Brasil 20: 283–292.

Zhang, Q-H. (In press). Glabrous spotted willow borer, *Anoplophora glabripennis* (Motschulsky). In: Baranchikov, Y.; Baranchikov, M., eds. Manual of main forest insect pests in Northern Asia.

Zwolinski, J.B.; Swart, W.J.; Wingfield, M.J. 1995. Association of *Sphaeropsis sapinea* with insect infestation following hail damage of *Pinus radiata*. (Abstract). Forest Ecology and Management 72: 2–3.

Zycha, H.; Kliefeth, R. 1971. Notes on the effect of the soil on the germination of spores of *Fomes annosus*. Phytopathologische Zeitschrift 71: 285–294.

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